

SDMS Document



90376

SUPPORTING DOCUMENTATION

QUESTION 6(a)

842893666

PASSAIC VALLEY SEWERAGE COMMISSIONERS**SEWER CONNECTION PERMIT**PERMIT # 20406320

(Please use the Permit Number on any correspondence with PVSC)

In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Reichhold Chemicals, Inc.(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

390-400 Doremus AvenueNewark, New Jersey 07105

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

Effective Date 10/16/89Expiration Date 10/16/94**PASSAIC VALLEY SEWERAGE COMMISSIONERS**
Executive Director

842893667

(F) Radioactive Wastes. Radioactive wastes or isotones of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which will, or may, cause damage or hazards to the treatment works or personnel operating the system.

(G) Excessive Discharge Rate. Industrial wastes discharged in a slug of such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.

(H) Heat. (a) any discharge in excess of 150°F (65°C) (b) Heat in amounts which would inhibit biological activity in the PVSC treatment works resulting in a treatment process upset and subsequent loss of treatment efficiency, but in no case shall heat be introduced into the PVSC treatment works in such quantities that the temperature of the influent waters at the treatment plant exceed 40°C (104°).

(I) Unpolluted Waters. Any unpolluted water including, but not limited to, cooling water or uncontaminated storm water, which will increase the hydraulic load on the treatment system, except as approved by PVSC.

(J) Water. Any water added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentration limits.

(2) No person shall discharge or convey, or permit to be discharged or conveyed, to the treatment works any wastes containing pollutants of such character or quantity that will:

(A) Not be susceptible to treatment or interfere with the process or efficiency of the treatment system.

(B) Violate pretreatment standards. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category must immediately conform

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (10/16/89) and lasting through (10/16/94) the permittee is authorized to discharge from outlet(s) number(ed) (20406320-44100-0201). Such discharge shall be monitored by the permittee as specified below.

Volume to be determined from water consumption data less 5% credit for evaporation.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	DAY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXXXXX	XXXXXXXXXX	Monthly	24 hr. comp.	Quarterly
TSS (0530)	XXXXXXXX	XXXXXXXXXX	Monthly	24 hr. comp.	Quarterly
pH (9000)	XXXXXXXX	5 to 10.5	Continuous	Recorder	*
LEL	XXXXXXXX	40%	Continuous	Recorder	*
Volume	XXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Quarterly

* Permittee to store pH and LEL Recorder Charts and have available for review by PVSC personnel on demand.

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C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

During the period beginning (10/16/89) and lasting through (10/16/94) the permittee is authorized to discharge from outlet(s) numbered (20406320-44100-0201). Such discharge shall be monitored by the permittee as specified below.

Volume to be determined from water consumption data less 5% credit for evaporation. Permittee to submit volume in accordance with PVSC Pretreatment Monitoring Report Form MR-1.

40 CFR 414.55, Subpart E

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	All units are in Micrograms per liter DAILY MAX.	MONTHLY AVG.	Measurement Frequency	Sample Type	Reporting Period
VOLUME	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	Semi-Annually
(a)	(a)	(a)	Twice/Year	(a)	Semi-Annually

(a) See Page 8 of 15, Section 2^D of this Permit for Effluent Characteristics, Daily and Monthly Discharge Limitations, and Sample Type.

2. In addition to the monitoring required in Section C.1. the Permittee is required to meet the following schedule of compliance:

A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey.

B. N.J.P.D.E.S.

Direct Discharge outlet monitored by N.J.D.E.P. Permit #NJ0063738.

C. Pretreatment Compliance Requirements - Organic Chemicals Categorical Pretreatment Standards 40 CFR 414.

11/05/90 Permittee to be in compliance with Organic Chemicals Categorical Pretreatment Standards 40 CFR 414.55 Subpart E.

02/05/91 Permittee to submit a Compliance Report to PVSC demonstrating compliance with Organic Chemicals Pretreatment Standards. The report shall be in accordance with General Pretreatment Regulations 40 CFR 403.12 section (d).

07/21/91 First Periodic Compliance Monitoring Report due. Permittee to submit a Periodic Compliance Monitoring Report Semi-Annually January 21 and July 21 in accordance with General Pretreatment Regulations 40 CFR 403.12 section (e).

ADDITIONAL REQUIREMENTS SECTION C2 CONTINUED:

D. Effluent Characteristics	Maximum for any one day	Maximum for monthly average	Sample Type
Acenaphthene	47	19	Composite
Benzene	34	57	Grab
Carbon Tetrachloride	380	142	Grab
Chlorobenzene	380	142	Grab
1,2,4-Trichlorobenzene	194	196	Composite
Hexachlorobenzene	194	196	Composite
1,2-Dichloroethane	174	180	Grab
1,1,1-Trichloroethane	59	22	Grab
Hexachloroethane	194	196	Composite
1,1-Dichloroethane	59	22	Grab
1,1,2-Trichloroethane	127	32	Grab
Chloroethane	295	110	Grab
Chloroform	325	111	Grab
1,2-Dichlorobenzene	194	196	Composite
1,3-Dichlorobenzene	380	142	Composite
1,4-Dichlorobenzene	380	142	Composite
1,1-Dichloroethylene	60	22	Grab
1,2-Trans-Dichloroethylene	66	25	Grab
1,2-Dichloropropane	194	196	Grab
1,3-Dichloropropylene	194	196	Grab
2,4-Dimethylphenol	47	19	Composite
Ethylbenzene	380	142	Grab
Fluoranthene	54	22	Composite
Methylene Chloride	170	36	Grab
Methyl Chloride	295	110	Grab
Hexachlorobutadiene	380	142	Composite
Naphthalene	47	19	Composite
Nitrobenzene	6402	2237	Composite
2-Nitrophenol	231	65	Composite
4-Nitrophenol	176	162	Composite
4,6-Dinitro-O-Cresol	277	78	Composite
Phenol	47	19	Composite
Bis(2-Ethylhexyl)Phthalate	258	95	Composite
Di-N Butyl Phthalate	43	20	Composite
Diethyl Phthalate	113	46	Composite
Dimethyl Phthalate	47	19	Composite
Anthracene	47	19	Composite
Fluorene	47	19	Composite
Phenanthrene	47	19	Composite
Pyrene	48	20	Composite
Tetrachloroethylene	164	52	Grab
Toluene	74	28	Grab
Trichloroethylene	69	26	Grab
Vinyl Chloride	172	97	Grab
Total Cyanide	1200	420	Grab
Total Lead	690	320	Composite
Total Zinc	2610	1050	Composite

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6. **ADDITIONAL MONITORING BY PERMITTEE**

If the permittee monitors any pollutant at the location (s) designated herein more frequently than required by this permit, using the approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Forms (PVSC Form MR-1 or MR-2). Such increased frequency shall also be indicated.

7. **RECORDS RETENTION**

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of (5) years.

8. **DEFINITIONS**

- a) The "30 day average" discharge means the average of daily values for 30 consecutive monitoring days. For the purpose of enforcement of Pretreatment Standards, consecutive samples taken and analyzed shall be considered as being taken on consecutive days even though one or more non-sampling days intervene. In applying the Pretreatment Standards where more than one but less than 30 samples have been taken and analyzed during any month, a formula, specified by USEPA, will be used to calculate the "30 day average".
- b) The "daily maximum" discharge means the highest discharge by weight or other appropriate units, as specified herein, during any calendar day.
- c) "Daily" - each operating day.
- d) "Weekly" - one day each week during a normal operating day.
- e) "Monthly" - one day each month during a normal operating day.
- f) "Composite" - a combination of individual samples obtained at regular intervals over the entire discharge day.

The volume of each sample shall be proportional to the discharge flow rate unless specifically modified by PVSC. For a 24 hour continuous discharge, a minimum of 24 individual samples shall be collected at equal intervals and at least once per hour. For continuous discharges of less than 12 hours, individual samples shall be taken at least once every 30 minutes. For discharges which are not continuous, individual samples shall be taken such that they will be representative of plant waste.

- g. "Grab" - an individual sample collected in less than 15 minutes.
- h. "Quarterly" - every three (3) months.
- i. "N/A" - not applicable.

2. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new PVSC Sewer Connection Application or, if such changes will not violate the effluent limitations specified in this permit, by notices to PVSC of such changes. Following such notices, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with, or will be unable to comply with any effluent limitation specified in this permit, the permittee shall notify PVSC within 24 hours of the occurrence. If this

Federal, State and local laws and regulations. Records documenting such disposal shall be made available to PVSC for review upon request.

F. MANAGEMENT RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the authorized representatives of PVSC, upon the presentation of credentials:

- a) To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring methods required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall, in writing, notify the succeeding owner or controller of the existence of this permit, and the need to apply for a new permit, a copy of which shall be forwarded to PVSC.

3. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, or revoked in whole or in part during its terms for cause including, but not limited to, the following:

- a) Violation of any terms or conditions of this permit;
- b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

8. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

*Copies - J. Kankun
D. Dieffenbach*

RECEIVED MAY 29 1990

F. New
(1)

CHARLES A. LAGOS
CHAIRMAN

RAYMOND LUCHKO
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
KENNETH W. HAYDEN
FRANK ORECHIO
DONALD TUCKER

COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

JAMES M. PIRO
CHIEF COUNSEL

NORMAN E. DARMSTATTER
CLERK

May 21, 1990

Reichhold Chemicals, Inc.
300-400 Doremus Avenue
Newark, New Jersey 07105

Attn: Arthur Dieffenbach

RE: REVISIONS TO SEWER CONNECTION PERMIT

Dear Mr. Dieffenbach:

Enclosed are the revisions to your Industrial Sewer Connection Permit. Please review and attach these changes to your existing Permit accordingly.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Frank P. D'Ascensio
Frank P. D'Ascensio,

Manager of Industrial & Pollution Control

FPD/mc

Enclosures

cc: City of Newark

842893677

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION PERMIT

PERMIT # 20406320

(Please use the Permit Number on any correspondence with PVSC)
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Reichhold Chemicals, Inc.(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

390-400 Doremus AvenueNewark New Jersey 07105

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

Effective Date 10/16/89Expiration Date 10/16/94

PASSAIC VALLEY SEWERAGE COMMISSIONERS

By: 

Executive Director

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CONDITIONS**A. General Prohibitions**

(1) No person shall discharge or deposit or cause or allow to be discharged or deposited into the treatment works or public sewer any waste which contains the following:

(A) Explosive Mixtures. Pollutants which create a fire or explosion hazard to the treatment works, collection system or to the operation of the system. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, etc.

(B) Corrosive Wastes. Any waste which will cause corrosion or deterioration of the treatment works. All wastes must have a pH not less than 5. Unless otherwise stated in the Sewer Connection Permit, all waste shall have a pH not more than 10.5. Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or fluoride compounds, etc.

(C) Solid or Viscous Wastes. Solid or viscous wastes which would cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the treatment works. Prohibited materials include, but are not limited to, uncomminuted garbage, bones, hides or fleshings, cinders, sand, stove or marble dust, glass, etc.

(D) Oils and Grease. (a) any industrial wastes containing floatable fats, wax, grease or oils. (b) any industrial wastes containing more than 100 mg/l of emulsified mineral oil or grease.

(E) Noxious Material. Noxious or malodorous solids, liquids or gases, which, either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.

ADDITIONAL REQUIREMENTS SECTION C2 CONTINUED:

D. Effluent Characteristics	Maximum for any one day	Maximum for monthly average	Sample Type
Benzene	134	57	Grab
Carbon Tetrachloride	380	142	Grab
Chlorobenzene	380	142	Grab
1,2,4-Trichlorobenzene	794	196	Composite
Hexachlorobenzene	794	196	Composite
1,2-Dichloroethane	574	180	Grab
1,1,1-Trichloroethane	59	22	Grab
Hexachloroethane	794	196	Composite
1,1-Dichloroethane	59	22	Grab
1,1,2-Trichloroethane	127	32	Grab
Chloroethane	295	110	Grab
Chloroform	325	111	Grab
1,2-Dichlorobenzene	794	196	Composite
1,3-Dichlorobenzene	380	142	Composite
1,4-Dichlorobenzene	380	142	Composite
1,1-Dichloroethylene	60	22	Grab
1,2-Trans-Dichloroethylene	66	25	Grab
1,2-Dichloropropane	794	196	Grab
1,3-Dichloropropylene	794	196	Grab
→ Ethylbenzene	380	142	Grab
Methylene Chloride	170	36	Grab
Methyl Chloride	295	110	Grab
Hexachlorobutadiene	380	142	Composite
Nitrobenzene	6402	2237	Composite
2-Nitrophenol	231	65	Composite
4-Nitrophenol	576	162	Composite
4,6-Dinitro-O-Cresol	277	78	Composite
Tetrachloroethylene	164	52	Grab
→ Toluene	74	28	Grab
Trichloroethylene	69	26	Grab
Vinyl Chloride	172	97	Grab
Total Cyanide	1200	420	Grab
Total Lead	690	320	Composite
Total Zinc	2610	1050	Composite

Rev: 5/90

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Removal

5/21/90

Dimethyl Phenol
Fluoranthene
Naphthalene
Phenol

Buo (2 Ethyl Hex) +
Diethyl Phenol
Di n Butyl Phenol
Dimethyl Phenol
Anthracene
Fluorene
Phenanthrene

5/21/90

MR-1 INSTRUCTION SHEET

1. Name and mailing address of Company
2. Address of facility
3. Fill in categorical number and subpart
4. If there is more than one categorical outlet, refer to the Sewer Connection Permit for appropriate outlet number. Use separate MR-1 form for each categorical outlet.
5. Person & phone number to be contacted for information
6. Monitoring period will be either from January 1 to June 30 or from July 1 to December 31. Reports covering these periods are due no later than July 21 or January 21 depending upon the monitoring period
7. Give regulated daily average and maximum water values for six month testing period.
8. Give total daily average and maximum water values for the six month testing period. During periods of maximum water use, the user must read water meters daily in order to provide the required data.
9. Explain method used for calculation: For example: To find the Daily Average take the total of City meters, Flowmeters, Well meters or all Additional meters then divide by the days worked during the 6 Month Period.
10. If applicable give production rate. To be used to calculate mass limits.
11. Under your categorical designation, list parameter. For example: lead, cyanide etc.
12. Average values based on the following:
 - (a) For concentration requirement use average of all the actual test result values for that Monitoring Period.

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- (b) For Mass limit requirement, use comparison of the average amount of the regulated substance discharged to the average production rate as defined in the covered regulation.
 - (c) Attach all lab results for testing period on NJDEP certified lab stationery.
- 13. Give maximum value from #12
- 14. Give required unit of measurement. For example: mg/l, lbs/1,000,000 off lbs.
- 15. Use value stated in covered regulation or calculation based on combined waste stream formula where applicable.
- 16. Number of samples taken during period
- 17. State whether sample was composite or grab.
- 18. List parameters not used. For example: We neither use or discharge any cadimum.
- 19.
 - (a) Print appropriate statement, including compliance schedule if applicable.
 - (b) Submit appropriate monitoring plans for TTO's if applicable.
- 20. State how samples were preserved. i.e. with nitric acid to a pH of 1.0 or below for metals. With caustic to a pH of 12.0 or above for cyanide.
- 21. Signature of principal or authorized "line" person.
- 22. Type Name and Title of authorized "line" person.
- 23. Date the form is completed.
- 24. Attach updated flow diagram including volumes. Indicate user charge and pretreatment sample points. Sign and Date Drawing.

PRETREATMENT MONITORING REPORT

3

Name ① ABC Company

Mailing Address ① P.O. Box 123 Newark, New Jersey 07105

Facility Location ② 1 First Street Newark, New Jersey 07105

Category & Subpart ③ Outlet# ④

Contact Official ⑤ Telephone# ⑤

Monitoring Period					
⑥	⑥	⑥	⑥	⑥	⑥
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

⑩

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	⑦	⑦
Total Flow-gal/day	⑧	⑧
Method used	⑨	

Parameter		Mass Limit or Concentration			No. of Samples	Sample t Comp./g
		Average	Maximum	Units		
⑪	Sample measurement	⑫	⑬	⑭	⑮	⑰
	Permit requirement	⑮	⑮	⑮		
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					
	Sample measurement					
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	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4 6/87 P1

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Certification of Non-use (use additional sheets if necessary) Based on Historical Data

18 Example: We neither use nor discharge any Cadmium, Lead, Silver,
TTO's etc.

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

19 Example: We use nickel in our plating operation and are meeting the
pretreatment requirements as expressed in 40 CFR xxx (see item 3).
We use cyanide in our operation and are out of compliance - we
expect delivery of the required equipment by 3/15/84 expect
completion of installation 4/1/84 start up 4/3/84 full compliance 4/1

Explain Method for preserving samples

20

21 John Doe
Signature of Principal
Executive or Authorized Agent

22 John Doe, V.P. of Mfg.

Type Name and Title-

23

Date

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD

January 15, 1992

Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, New Jersey 07105

ATTENTION: Industrial Department

Gentlemen:


This is to inform you that due to fire on January 10, 1991 at the Doremus Avenue facility, the production at that location is shut down completely. We will not be able to treat any OCPSF regulated water, either from Albert Avenue or Doremus Avenue, at this facility. Only sanitary and limited boiler blow down water will be discharged from Doremus Avenue.

We have contacted Chemical Waste Management on Lister Avenue in Newark for the treatment of our OCPSF regulated water from both plants. All water generated and regulated under OCPSF regulation will be sent to Chem Waste Management for treatment and disposal.

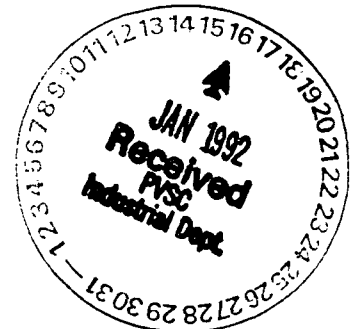
If you have any questions, please contact me at the number listed below.

Very truly yours,

REICHHOLD CHEMICALS, INC.


Robert Naujelis
Environmental Engineer

RN:c1



(201) 589-3709
(201) 817-9173 (Facsimile)

842893685

Reichhold Chemicals, Inc.

Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD

January 15, 1992

Passaic Valley Sewerage Commission
600 Wilson Avenue
Newark, New Jersey 07105

ATTENTION: Ms. Nadine Peace

Dear Ms. Peace:

This is to inform you that due to fire on January 10, 1991 at the Doremus Avenue facility, the production at that location is shut down completely.

We will not be able to prepare the MR-1 and MR-2 reports on time for the coming month for either Albert Avenue or Doremus Avenue. We would like to have a 30 day extension for filing these reports for both facilities.

If you require any additional information, please call me at the number listed below.

Very truly yours,

REICHHOLD CHEMICALS, INC.


Robert Naujelis
Environmental Engineer

RN:cl



Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105



REICHHOLD

April 15, 1994.

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, NJ 07105
ATTN : Industrial Department.

RE : Reichhold Chemicals, Inc.
400 Doremus Avenue
Newark, New Jersey 07105
Renewal of Sewer Connection Permit # 20406320

Dear Department Member:

Enclosed you will find a completed Sewer Connection Permit Application from the subject facility, submitted at least six months prior to the 10/16/94 expiration date of the permit. Given the turnaround period required by our outside laboratory, analytical information required as part of this application will be submitted to your attention upon receipt under separate cover.

PLEASE call me or Mr. Ken May if you have any questions regarding the application.

Sincerely,

Mike Baxi

Mike Baxi
Environmental Engineer

Encl.

CC : P. Brustofski
K. May

- RCI/RTP
- Reichhold/Doremus

842893687

Tel: (201) 589-3709

INSTRUCTIONS FOR COMPLETING SEWER CONNECTION APPLICATION

Users who receive an application must return the completed application within required time frame in cover letter, to the Passaic Valley Sewerage Commissioners, 600 Wilson Avenue, Newark, NJ 07105 Attention of the Industrial Department. New applicants will be advised if a Sewer Connection Permit is required upon the completion of their application evaluation.

Questions concerning the completion of the application may be answered by contacting the Industrial Department at 817-5715. Answer all questions, if one does not apply write in N/A or None.

1. Be certain to indicate if Company is incorporated.
2. To be filled in only for Permit renewals.
4. To be filled in only if mailing address is different from the location; otherwise write "Same".
5. This is the person PVSC will contact to answer questions and provide information as necessary. Fill in address only if it is different from the Facility Location.
6. Use annual average numbers.
7. Self explanatory. Entire property must be listed. If property lies in more than one municipality, indicate which ones lies within the respected municipalities.
8. Self explanatory. Be certain to list the total amount of square feet rented.
9. Self explanatory. If none, so state.
10. Circle Y if well water or river water is consumed regardless of how it is used.
11. Self explanatory. Be certain to list all account numbers.
12. Report consumption for most recent 12 months; i.e., from Mo. 3/1 Yr. 83 through Mo. 2/28 Yr. 84. Total up the quarterly volumes from all sources. Be certain to convert to gallons. Most water utilities report consumption in hundreds of cubic feet (100 cu.ft.) If this is the case, it will be necessary to add two zeros to the figure in order to convert it to cubic feet, then multiply it by 7.48 to convert the figure to gallons. Check the unit of measure on the meters used to measure river or well water volumes, convert them also if necessary. Please note, an asterisk means the figure is estimated.
13. Total amount of water received must equal the total amount of water used and disposed of. Fill in the quantity of each that applies. Be certain to use an asterisk for estimated figures.

14. This item applies only to process wastewater and explains how it is disposed of. There are only a few communities that have combined sewers. If you are in doubt contact the municipal sewer or engineering department. The last two items describe a direct discharge. If the discharge is either connected to a storm sewer which drains ultimately to a stream or a river, or discharges to a stream or river by some other means, an NJPDES Permit may be required.
15. Self explanatory. If none, so state.
17. Self explanatory, i.e., manufacturing, condensation, oxidation/reduction, non-aqueous extraction, etc.
18. Self explanatory. It is not necessary to list all chemicals used. Avoid using trade names which do not identify the chemical.
19. Self explanatory, i.e., water soluble dyes for the paper industry.
20. Include only significant variations, i.e., during March, April and May of each year an additional product is manufactured which increases the TSS and volume discharged to the sanitary sewer by 25%. If there are no seasonal variations, so state.
21. Include pH control, oil and grease removal systems or recorders for pH, LEL etc. Indicate type of sensing element for LEL instruments. New applicants, number all outlets starting with number 1. Use this number throughout. Renewal applicants, use the first 8 digits of the outlet designation found in Section C1 of the expiring Sewer Connection Permit.
22. Identify outlet as in item 21. Second column, answer Y or N depending on characteristics of discharge. Third column, describe type of sampler used, i.e., filled chamber composite, peristaltic composite etc. If none, so state. Fourth column, answer Y or N depending on whether sample is refrigerated to maintain temperature at 4°C during and after collection.
23. Identify outlet as in item 21. Second column, average volume is satisfactory unless there are significant seasonal changes. In the latter case report both averages to coincide with answer for item 20. Third column, answer Y or N depending on whether a flow measuring device is installed. Fourth column, describe type of instrument installed, i.e., parshall flume, magnetic meter, etc. Also state if totalizer is resettable or not. Fifth column, provide date of last calibration.

NOTE: In those cases where incoming water meters are used to measure the volume or a different method is used than a meter on the outlet, attach a separate sheet with an explanation. Also if more than one sanitary connection has been combined into one outlet in the Sewer Connection Permit, explain on a separate sheet.
24. Self explanatory. Identify meters if necessary. Omit those meters maintained by the water utility.

25. Identify outlets as in item 21. Internal building sewer lines need not be shown, but all external lines must be shown.
26. An applicant who is regulated by a Federal Category must analyze for those parameters listed in accordance with the regulation. Also, all other parameters listed in Section E must be analyzed in accordance with the instructions. The sample that is analyzed should be a composite collected over the operating day and should be representative of the normal discharge. Some parameters require grab samples in place of composite samples. Samples must be properly preserved as required. All analyses must be conducted in accordance with the 1974 EPA Standard Methods Manual, the Fourteenth Edition of Standards Methods or the 1975 ASTM, as outlined in 40 CFR Part 136 12/1/76 and its revisions. In particular, analyses for Heavy Metals must be conducted by Atomic Absorption. Those analyses for Toxic Organics or Pesticides must be conducted by Gas Chromatography. All analyses must be conducted by a Lab certified by NJDEP to perform the analyses reported. Results must be submitted on Lab certified forms in addition to being entered in Section E.

Renewal applicants do not have to analyze for those parameters currently being monitored and periodically reported. Results from samples taken during the past six months are acceptable for submittal to PVSC provided results are so noted.

The results of the analyses must be reported to the decimal points indicated. The parameters marked with (1) must be reported to the nearest tenth; i.e., 1.6 mg/l. The parameters marked with an asterisk (*) need only be analyzed for if reasonably expected to be present in the discharge, unless otherwise exempted. All other parameters must be analyzed. Concentration values are to be reported in mg/l unless otherwise specified. Identify the outlets as in Item 21, also identify name and employer of person collecting and analyzing the samples. If submitting an analysis for more than 1 outlet use separate sheets.

27. Self explanatory. Identify employer also.
31. Applicant is required only to check the box that best describes the potential for The Priority Pollutants listed on Tables 1, 2, & 3 to be present in his discharge.
32. Identify EPA industrial categories that apply. Also give alphabetical subpart listings and names that identify specific subparts.
33. If more than one compliance date applies, list separately.
35. If no schedule is required answer N/A.

Revised 1/87

Revised 7/90

PASSAIC VALLEY SEWERAGE COMMISSIONERS
APPLICATION FOR A SEWER CONNECTION PERMIT

SECTION A

1. Company Name: Reichhold Chemicals, Inc.
2. Permit number if applicable, 20406320
3. Location: 400 Doremus Avenue
Newark NJ Zip Code: 07105
4. Mailing Address: Same
Zip Code: _____
5. Person to contact concerning information provided in this application:
Name of Contact Official: Mr. Ken May
Title: Sr. Process Engineer Phone No. 201 / 589-3709
Address: _____ Zip Code _____
6. Number of Employees - Full Time: 22 Part Time: None
Number of Work Days Per Year: 260
Number of Shifts Per Day: 3
7. If property is owned indicate block and lot numbers:
Block 5070 Lots 9,9A,11 and 11A
Assessed Value: \$ 837,400.00 1993
8. If property is rented indicate name and address of owner:
N/A
- Total square feet rented: _____
9. List NJPDES Permit number if applicable, NJ0063738 and
name of receiving body of water entered Newark Bay

SECTION B

WATER DATA

10. Water Source: (Circle all appropriate answers)

Purchased

☒ Y - ☐ N

11.

Well

Y - ☒ N

If Y, is it metered

Y - N

River

Y - ☒ N

If Y, is it metered

Y - N

11. Name of purchased water supplier: City of Newark

List all Acct #s: 107887321000 10788732700

12. Water Received: From Mo. 1 Yr. 93 Through Mo. 12 Yr. 93

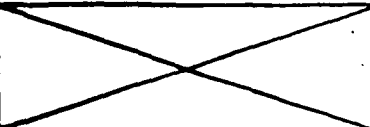
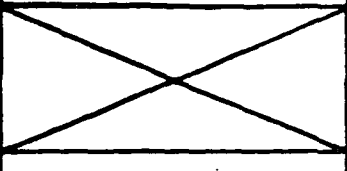
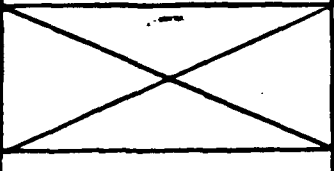
(* Next to a figure means it is estimated).

	<u>PURCHASED</u>	<u>WELL</u>	<u>RIVER</u>	<u>TOTAL</u>
1st Qtr.	4,255,080	0	0	4,255,080
2nd Qtr.	2,184,137	0	0	2,184,137
3rd Qtr.	3,150,970	0	0	3,150,970
4th Qtr.	1,323,189	0	0	1,323,189

GRAND TOTAL 10,913,376

Report in gallons

13. Water Use and Disposition (* Next to a figure means it is estimated).

	<u>Gallons Sanitary/Combined Sewer</u>	<u>Discharged Stormsewer/ River/Ditch</u>	<u>Gallons Used Other</u>
Sanitary Service Only	390,930*	None	
Process Waste Water	9,976,780*	None	
Cooling Water	None	None	
Evaporation			451,750*
Contained in the product			93,916*
Other (Describe)			

GRAND TOTAL 10,913,376

SECTION B (CONTINUED)

14. Process wastewater which is discharged as above is metered as follows:

to the Separate Sanitary Sewer	Y - <input checked="" type="radio"/> N
to the Combined Sewer	Y - <input checked="" type="radio"/> N
to a storm sewer	Y - <input checked="" type="radio"/> N
river or ditch	Y - <input checked="" type="radio"/> N

15. Waste Hauler Information: List all firms and/or independent contractors used to remove process waste or sludge from this facility.

Contractor	Address	Icc#	Waste type handled
See Attached List.			

SECTION C

OPERATIONAL CHARACTERISTICS

16. Discharge of Industrial Waste is continuous Yes
or intermittent _____ each operating day.

If the discharge is intermittent, it occurs between the following hours: _____

17. Brief description of Manufacturing or other activity performed: Resin Manufacturing/
Polymerization Reactions.

List SIC CODE #: 2821

18. Principal Raw Materials used: Organic Polybasic Acids, Polyalcohols,
Solvents, Vegetable Oils, Fatty Acids and Monomers.

19. Principal Products or Services: Alkyd Resins and other specialty
Products used in the Industrial Coating Industries.

SECTION C (CONTINUED)

20. Describe seasonal variations, if significant, giving dates, volumes, rates, hours, etc. Include variations in product lines which affect waste characteristics: None

Does this facility shutdown for vacations? No If so, is it basically the same time each year _____. Provide dates usually shut down _____

SECTION D

MONITORING

21. Describe any pretreatment process or effluent monitoring system in use:

Outlet 20406320-44100-0201 Process Waste Water Organic Stripper.

PH control on inlet/outlet. Continuous PH monitoring on outlet.

Outlet _____ Chart Recorder.

N/A

Outlet N/A

22. Sampling information:

<u>Outlet</u>	<u>Contains Ind. Waste</u>	<u>Sampler Type</u>	<u>Refrigerated</u>
20406320-44100-0201	Y	None	Yes
NA			

SECTION D (CONTINUED)

23. Volume Information;

<u>Outlet</u>	<u>Daily Flow (Gallons)</u>	<u>Metered (Y - N)</u>	<u>Type</u>	<u>Date</u>
20406320- 44100-0201	29,900*	N	-	-
*(10,913,376/365)				

24. Frequency of calibration of each flow meter: N/A (No Flowmeter for Effluent)

25. Attach a plot plan of the property showing:

- (a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);
- (b) sample point(s); Monitoring or Pretreatment Equipment; Incoming meter(s); Well meter(s); Internal meter(s); Flowmeter(s).
- (c) details of the connection (s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

SECTION E

ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET NO. 20406320-44100-0201

Data to be provided under separate cover.

Report to the nearest unit: **XX**.
except where indicated with (1)
Example: 15 mg/l

Report to the nearest hundredth: **0.XX**
except where indicated
Example: 0.36 mg/l

<u>Code</u>	<u>Parameter</u>	<u>Value</u>	<u>Code</u>	<u>Parameter</u>	<u>Value</u>
0200*	Radioactivity (PL-1)		1097*	Antimony (Sb)	
0500	Total Solids		1002*	Arsenic (As)	
0510	Total Mineral Solids		1022*	Boron (B)	
0530	Total Suspended Solids		1027*	Cadmium (Cd)	
0552	Mineral Suspended Solids		1034*	Chromium Total (Cr)	
0555 (1)(3)	Petroleum Hydrocarbons		1042*	Copper (Cu)	
0310	Biochemical Oxygen Demand (BOD)		1045*	Iron (Fe)	
			1051*	Lead (Pb)	
0340	Chemical Oxygen Demand (COD)		0720*(3)	Cyanide (CN)	
			1900*	Mercury(Report to 0.XXX)	
0680	Total Organic Carbon (TOC)		1067*	Nickel (Ni)	
			1147*	Selenium (Se)	
9000	pH (standard unit range)		1077*	Silver (Ag)	
0610 (1)	Ammonia as N		1102*	Tin (Sn)	
0550 (1)(3)	Total Oil & Grease		1092*	Zinc (Zn)	
0745* (1)	Sulfide		2730	Phenol	
0507* (1)	Ortho Phosphates as P		4053*	Pesticides (Report to 0.XXX)	
0625* (1)	Kjeldahl N as N				
9998* (2)(3)	TTO (Report to 0.XXX)		9999*(3)	TTVO(Report to 0.XXX)	

FOOTNOTES:

(1) Report results to the nearest tenth, i.e., 1.6 mg/l.

(*) Analyze for this if reasonably expected to be present in the discharge unless otherwise exempted.

(2) See instructions.

(3) Grab sample required.

REVISED 1/87
REVISED 8/89
REVISED 7/90

SECTION E (CONTINUED)

Samples collected by: Mr. Mike Baxi

Date: April 14, 1994.

Samples analyzed by: Townley Laboratories, Inc.

Date: _____

Products being manufactured when sample was collected: Yes, One Reactor is on
line at this time.

27. Who performs the analyses of the samples for User Charge? Townley Laboratories, Inc.

28. Is the Laboratory certified by NJDEP to conduct all the analyses? ☒ Y - N _____

29. Who performs the analyses of the samples for the Pretreatment Parameters?

Chemtech Consulting Groups, Inc.

(If monitoring has not commenced for Pretreatment, indicate Laboratory you plan to use. If unknown, so state): _____

30. Is The Laboratory certified by NJDEP to conduct all the required Pretreatment analyses?

☒ Y - N _____

31. Based upon knowledge of materials and processes used at this facility check the appropriate box that best describes the potential that a Priority Pollutant, listed on Tables 1, 2, & 3 is present in your discharge.

SECTION F

PRETREATMENT

32. Industrial Category: 40 CFR 414
Subpart (s): Subpart E, Thermosetting Resins.
33. Compliance date(s): 11/05/1990 Compliance with OCPSF Stds. 02/05/91 BMR Submission. 07/21/91 Submission of first semiannual Monitoring report.
34. Is facility in compliance? Yes If not, and if compliance date has passed, explain actions being taken to get into compliance: Note : PH control system currently being rebuilt as part of plant start-up. System will operate as indicated in May 31, 1991 letter from Robert Naujelis to PVSC.
35. Date Baseline Monitoring Report (BMR) submitted to PVSC: February 1991.
36. Compliance schedule submitted? Yes
If yes is facility on schedule? Yes Explain if compliance date will not be met:
37. Does this facility come under the Resource Conservation and Recovery Act (RCRA)?
Yes
38. Does this facility have a Spill Prevention Control and Countermeasures (SPCC) plan?
If yes, describe: Yes. Approved discharge prevention (DPCC) plan in effect to prevent releases and unplanned discharges.
39. Has this facility ever been cited by NJDEP or EPA for a violation of State or Federal Regulations for the nature of its wastewater discharge? (Y) N See 12/93 Complaint file by PVSC.
40. Is this facility under an ECRA Clean-up? Yes If so, has a plan been approved by NJDEP: yes
Is there any plan to discharge groundwater? ECRA cleanup being conducted by third party. (Textron).

CERTIFICATION*:

The information contained in this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete, and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority to sign the application on behalf of the corporation.

Name of signing official: Mr. Mikulas Gasparik
PRINT

TITLE: Plant Manager

04/15/1994.
DATE


SIGNATURE

***APPLICATION MUST BE SIGNED BY ONE OF THE FOLLOWING:**

- a. Principal Officer of Corporation
- b. President or Owner of Company
- c. General Partner if a Partnership
- d. Plant Manager or Authorized Representative

Reichhold Chemicals, Inc.

Coating Polymers & Resins Division

400 Doremus Avenue

Newark, NJ 07105

REICHHOLD

April 15, 1994.

Waste Hauler Information.

Contractor	Address, Phone and EPA No	ICC #	Waste Type Handled
Laidlaw Environmental Services (TG) Inc.	350 Railroad Street Roebuck, SC 29376 (803) 587-1999 SCD 987574647	N/A	Bulk Haz Waste D001
Oliver Corporation	P.O. Box 228 Ashland, VA 23005 (804) 798-7981 VAD 040159436	N/A	Bulk Haz Waste Drummed Haz Waste D001, F003, F005
Clean Venture Inc.	1160 State Street Perth Amboy, NJ 08862 (908) 442-4900 NJD 982281016	N/A	Bulk Haz Waste Drummed Haz Waste D001, F003, F005
Safety Kleen Corp.	1200 Sylvan Street Linden, NJ 07036 (908) 862-2000 NJD 002182897	N/A	Bulk Haz Waste D001, F003, F005
Nappi Trucking Corp.	P.O. Box 510 Matawan, NJ 07747 (908) 566-3000 NJD 000813477	N/A	Bulk Waste Water
Bechem Transport Inc.	N/A CTD 982191942	N/A	Drummed Haz Waste
Dart Trucking Inc.	N/A OHD 009865825	N/A	Drummed Haz Waste
Tri-State Motor Transit Co.	N/A MOD 095038998	N/A	Drummed Haz Waste

Tel: (201) 589-3709
Fax: (201) 817-9173

842893700

400 Doremus Avenue -
Newark, NJ 07105

4115194.

TABLE 1 EPA PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acenaphthene			X		2,4 dimethylphenol			X	
acrolein				X	2,4 dinitrotoluene			X	
acrylonitrile			X		2,6 dinitrotoluene			X	
benzene			X		1,2 diphenylhydrazine			X	
benzidine			X		ethylbenzene	X			
carbon tetrachloride			X		fluoranthene			X	
(tetrachloromethane)			X		4-chlorophenyl phenyl ether			X	
chlorobenzene			X		4-bromophenyl phenyl ether			X	
1,2,4-trichlorobenzene			X		bis(2-chloroisopropyl) ether			X	
hexachlorobenzene			X		bis(2-chloroethoxy) methane			X	
1,2 dichloroethane			X		methylene chloride			X	
1,1,1, trichloroethane			X		(dichloromethane)			X	
hexachloroethane			X		methyl chloride			X	
1,1, dichloroethane			X		(chloromethane)			X	
1,1,2 trichloroethane			X		methyl bromide			X	
1,1,2,2, tetrachloroethane			X		(bromomethane)			X	
chloroethane			X		bromoform(tribromomethane)			X	
bis(chloromethyl) ether			X		dichlorobromomethane			X	
bis(2 chloroethyl) ether			X		trichlorofluoromethane			X	
2-chloroethyl vinyl ether (mixed)			X		dichlorodifluoromethane			X	
2-chloronaphthalene			X		chlorodibromomethane			X	
2,4,6 trichlorophenol			X		hexachlorobutadiene			X	
para-chlorometa cresol			X		hexachlorocyclopentadiene			X	
chloroform (trichloromethane)			X		isophorone			X	
2 chlorophenol			X		naphthalene	X			
1,2, dichlorobenzene			X		nitrobenzene			X	
1,3, dichlorobenzene			X		2-nitrophenol			X	
1,4, dichlorobenzene			X		4-nitrophenol			X	
3,3, dichlorobenzidine			X		2,4-dinitrophenol			X	
1,1, dichloroethylene			X		4,6 dinitro-o cresol			X	
1,2, trans-dichloroethylene			X		N-nitrosodimethylamine			X	
2,4, dichlorophenol			X		N-nitrosodiphenylamine			X	
1,2, dichloropropane			X		N-nitrosodi-n-propylamine			X	
1,3 dichloropropylene			X		pentachlorophenol			X	
(1,3 dichloropropene)			X		phenol	X			

- A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

600 DOKEMMS
NEWARK, NJ 07105

4/15/94.

TABLE 1 EPA PRIORITY POLLUTANTS (CONTINUED)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
bis(2-ethylhexyl) phthalate	X				endrin			X	
butylbenzylphthalate			X		endrin aldehyde			X	
di-n-butylphthalate			X		heptachlor			X	
di-n-octylphthalate			X		heptachlor (epoxide)			X	
diethylphthalate			X		BHC Alpha			X	
dimethylphthalate			X		BHC Beta			X	
benzo(a)anthracene			X		BHC Gamma			X	
benzo(a)pyrene			X		BHC Delta			X	
3,4 benzofluoranthene			X		PCB-1242			X	
benzo(k)fluoranthene			X		PCB-1254			X	
chrysene			X		PCB-1221			X	
acenaphthylene			X		PCB-1232			X	
anthracene			X		PCB-1248			X	
benzo(ghi)perylene			X		PCB-1260			X	
fluorene			X		PCB-1016			X	
phenanthrene			X		toxaphene			X	
dibenzo(a,h)anthracene			X		antimony (total)			X	
indeno(1,2,3-c,d)pyrene			X		arsenic (total)			X	
pyrene			X		asbestos (fibrous)				X
tetrachloroethylene			X		beryllium (total)			X	
toluene	X				cadmium (total)			X	
trichloroethylene			X		chromium (total)				
vapor chloride			X		copper (total)			X	
aldrin			X		cyanide (total)				X
dieldrin			X		lead (total)				X
chlordane			X		mercury (total)				
4,4 DDT			X		nickel (total)			X	
4,4 DDE			X		selenium (total)			X	
4,4 DDD			X		silver (total)			X	
endosulfan I			X		thallium (total)			X	
endosulfan II			X		zinc (total)				X
endosulfan sulfate			X		2,3,7,8, tetrachlorodibenzo			X	
			X		p-dioxin			X	

- A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

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 Newark, NJ 07105
 4/15/94

TABLE 2 NJDEP EXPANDED PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acrylamide			X		n,n-dimethyl aniline			X	
amitrole			X		3,3-dimethyl benzidine			X	
amyl alcohols			X		1,1-dimethylhydrazine			X	
aniline hydrochloride			X		dioxane			X	
anisole			X		diphenylamine			X	
auramine			X		ethylenimine			X	
benzotrithloride			X		hydrazine			X	
benzylamine			X		4,4'-methylene bis (2-chloroaniline)			X	
o-chloroaniline			X		4,4'-methylenedianiline			X	
m-chloroaniline			X		methyl isobutyl ketone			X	
p-chloroaniline			X		alpha-naphthylamine			X	
1-chloro-2-nitrobenzene			X		beta-naphthylamine			X	
1-chloro-4-nitrobenzene			X		n-methylaniline			X	
chloroprene			X		1,2-phenylenediamine			X	
chrysoidine			X		1,3-phenylenediamine			X	
cumene			X		1,4-phenylenediamine			X	
2,3-dichloroaniline			X		sudan 1 (solvent yellow 14)			X	
2,4-dichloroaniline			X		thiourea			X	
2,5-dichloroaniline			X		toluene sulfonic acids			X	
3,4-dichloroaniline			X		toluidines			X	
3,5-dichloroaniline			X		xylidines			X	
1,2-dichloropropene			X						
1,3-dimethoxybenzidine			X						

- A. KNOWN TO BE PRESENT
- B. SUSPECTED TO BE PRESENT
- C. KNOWN TO BE ABSENT
- D. SUSPECTED TO BE ABSENT

50 DOREMUS AVENUE
NEWARK, NEW JERSEY 07105
1415194.

TABLE 3 RPA HAZARDOUS SUBSTANCES

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acetaldehyde			X		isopropanolamine			X	
allyl alcohol			X		kelthane			X	
allyl chloride			X		kepone			X	
amyl acetate			X		malathion			X	
aniline			X		mercaptodimethur			X	
benzonitrile			X		methoxychlor			X	
benzyl chloride			X		methyl mercaptan			X	
butyl acetate				X	methyl methacrylate			X	
butylamine			X		methyl parathion			X	
captan			X		mevinphos			X	
carbaryl			X		mexacarbate			X	
carbofuran			X		monoethyl amine			X	
carbon disulfide			X		monomethyl amine			X	
chlorpyrifos			X		naled			X	
coumaphos			X		napthenic acid			X	
croresol			X		nitrotoluene			X	
crotonaldehyde			X		parathion			X	
cyclohexane			X		phenolsulfonate			X	
2,4-D (2,4-dichlorophenoxy			X		phosgene			X	
acetic acid)					propargite			X	
diazinon			X		propylene oxide			X	
diazinon			X		pyrethrins			X	
dibenzyl			X		quinoline			X	
dichlorone			X		resorcinol			X	
2,2-dichloropropionic acid			X		strontium			X	
dichlorvos			X		strychnine			X	
diethyl amine			X		styrene			X	
dimethyl amine			X		2,4,5-T (2,4,5-trichloro-			X	
dinitrobenzene			X		phenoxy acetic acid)				
diquat			X		TDE (tetrachloro-				
					diphenylethane)				
					2,4,5-TP 2-(2,4,5-			X	
					trichlorophenoxy)				
					propanoic acid				
disulfoton			X		trichlorofon			X	
diuron			X		triethylamine			X	
epichlorohydrin			X		trimethylamine			X	

- A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

400 DOKMAN, AVENUE
NEWARK, NJ 07105

04/15/94 **TABLE 3 EPA HAZARDOUS SUBSTANCES (CONTINUED)**

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
ethanolamine			X		uranium			X	
ethion			X		vanadium			X	
ethylene diamine			X		vinyl acetate			X	
ethylene dibromide			X		xylene	X			
formaldehyde			X		xylenol			X	
furfural			X		zirconium			X	
guthion			X						
isoprene			X						

- A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECTED TO BE ABSENT

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

May 31, 1991

Vicky
thorpe
No - (0) which

REICHHOLD

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

ATTENTION: Mr. Carmine Perrapato

Dear Mr. Perrapato,

We are in receipt of your letter dated May 21, 1991, requesting Reichhold to provide you with a plan and timetable for the installation of pH control equipment at the Doremus Avenue plant.

A conceptual plan that we believe will provide a permanent solution pH control problems at this facility is attached hereto. The system will be designed to continuously monitor and control pH in a neutralization tank through which all plant wastewater will pass. The system will be designed to require a minimum of operator attention.

The final design and installation of this system is expected to be completed according to the following timetable:

1. June 30, 1991: Final engineering design completed and project bids solicited.
2. July 30, 1991: Begin construction.
3. October 30, 1991: Construction completed.
4. December 1, 1991: Complete shakedown begin routine operation.

We feel that the majority of the pH fluctuations at the facility are the result of process boiler water. A small scale system to treat this stream separately is currently being installed and will eliminate most pH excursions well before the plantwide system is operational.

We feel that an informal meeting to discuss our plans would be to our mutual benefit. We look forward to hearing from you at your earliest convenience. Thank you for your patience in this matter.

Sincerely yours,



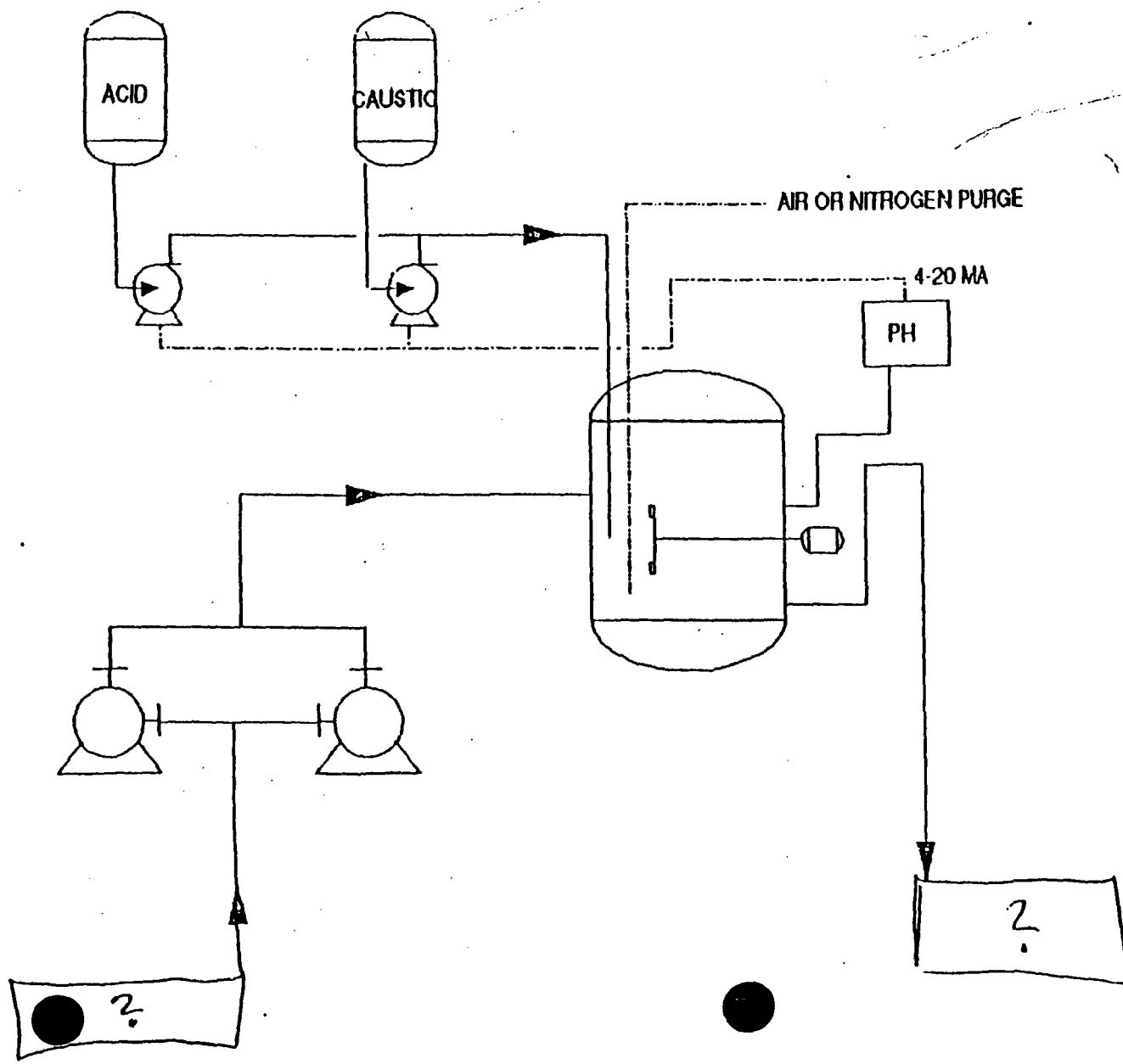
Robert Naujelis
Environmental and Safety Mgr.

RN:cl

cc: K. Taylor
D. Bright
A. Dieffenbach

(201) 589-3709
(201) 817-9173 (Facsimile)

842893706



D O R E M U S A V E

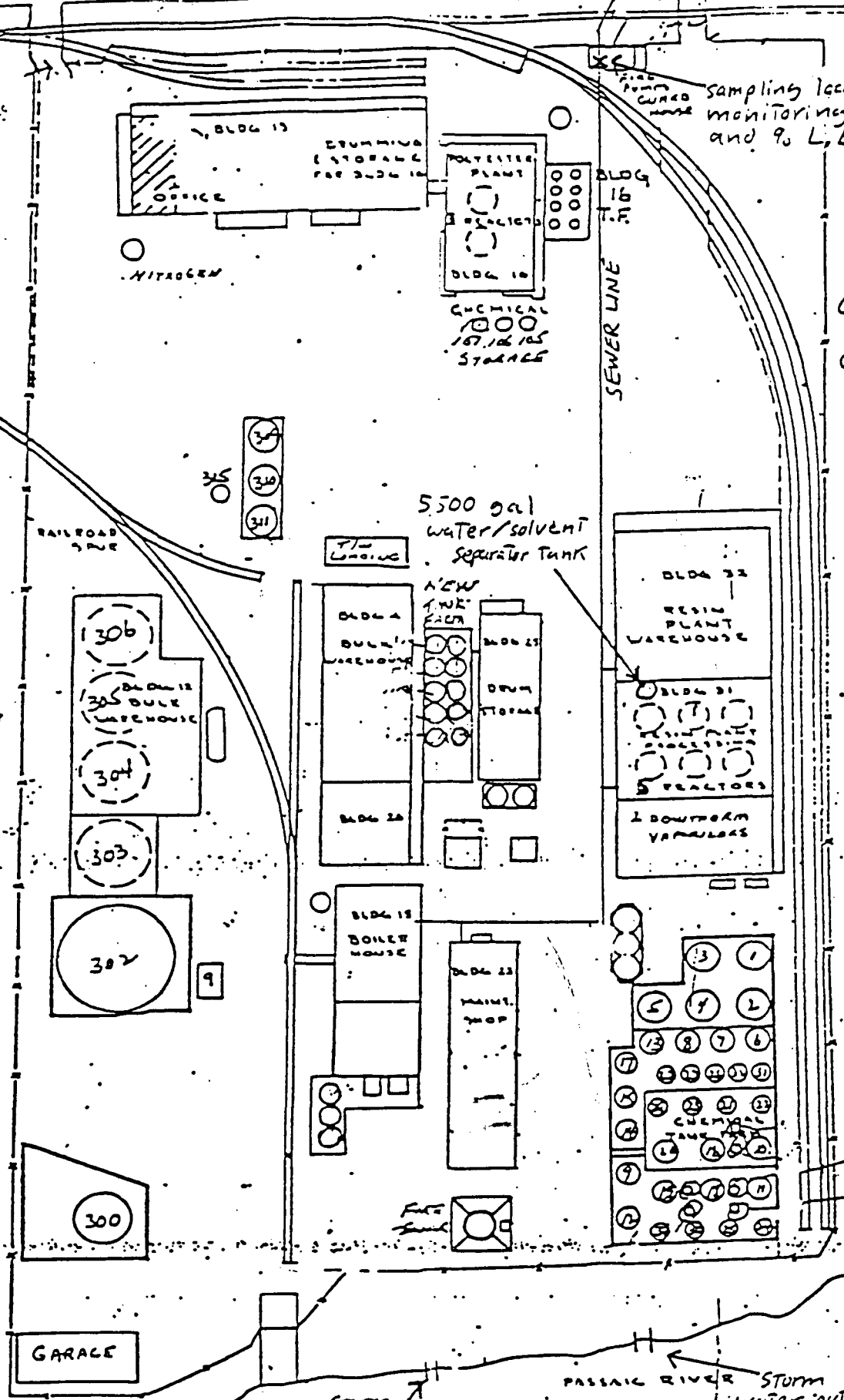
TO ROYAL AVE

Sun Oil

N

sampling location on monitoring for pt and 9, E, L

Celanese chemicals



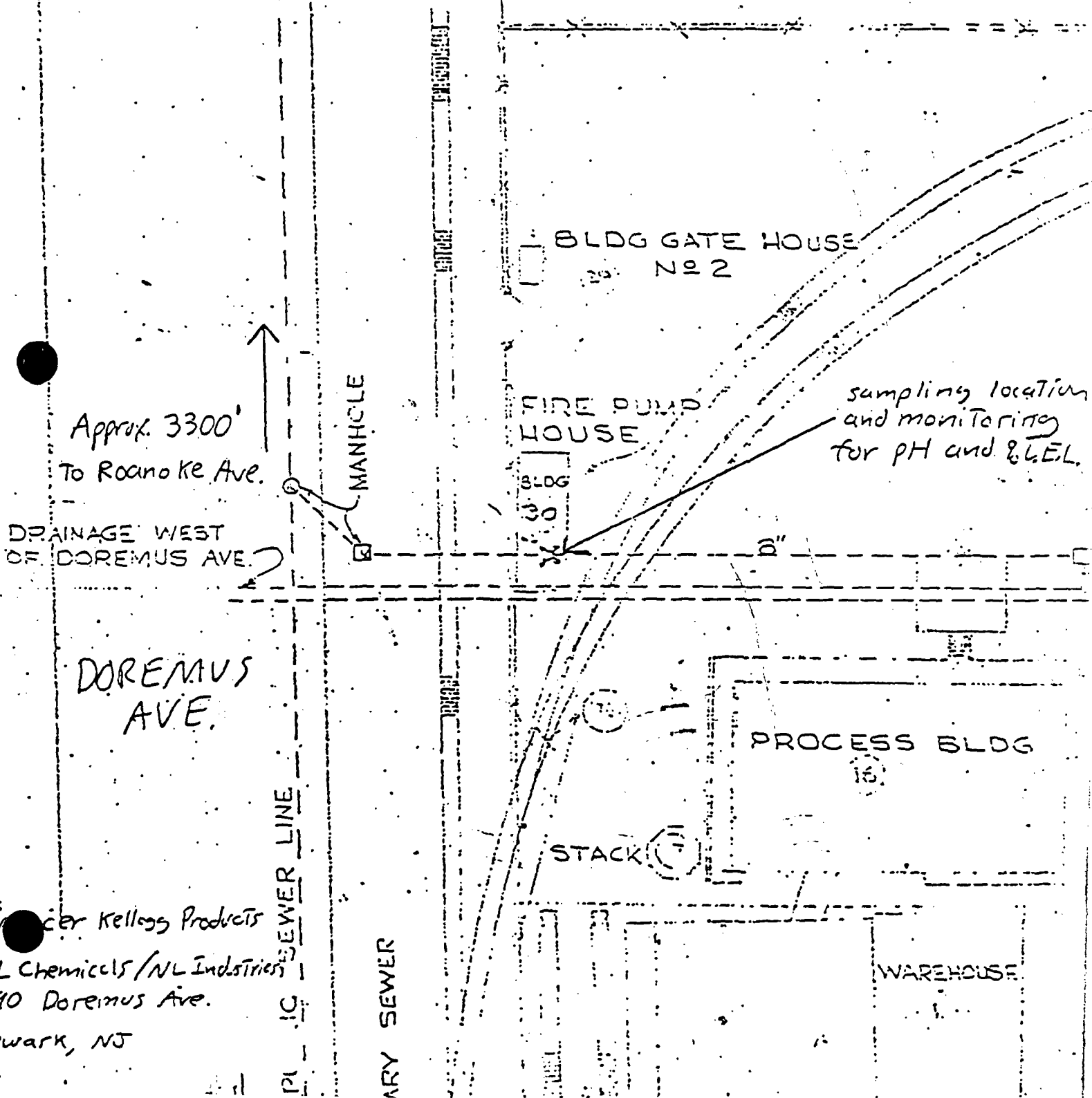
842893708

Spencer Kellogg Products

NL Chemicals/NL Industries, Inc.

Note: all industrial waters
travel to the sewer line
through the 8" line
depicted in this plot plan

PROPERTY
OF CHINESE
CHEMICAL



F - Discharge - permits - wastewater.

DANIEL F. BECHT, ESQ.
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

DOMINIC W. CUCCINELLO
RONALD W. GIACONIA
JAMES KRONE
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

ROBERT J. DAVENPORT
EXECUTIVE DIRECTOR

PETER G. SHERIDAN
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

October 14, 1994

Mr. Arthur Diffenbach
Reichhold Chemical Inc.
300-400 Doremus Avenue
Newark, New Jersey 07105

Certified Mail
P 252 571 437

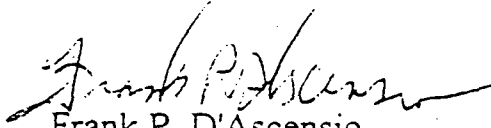
RE: SEWER CONNECTION PERMITS

Dear Mr. Diffenbach:

Enclosed you will find your Sewer Connection Permit for discharge into the Passaic Valley Sewerage Commissioners system.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS



Frank P. D'Ascensio
Manager of Industrial & Pollution Control

FPD/mc

Enclosures:

cc: City of Newark

842893710

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION PERMIT

PERMIT # 20406320

(Please use the Permit Number on any correspondence with PVSC)
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Reichhold Chemicals, Inc.(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

390-400 Doremus AvenueNewark, New Jersey 07105

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

EFFECTIVE DATE 10/16/94EXPIRATION DATE 10/16/99

PASSAIC VALLEY SEWERAGE COMMISSIONERS

BY: 

EXECUTIVE DIRECTOR

842893711

CONDITIONS

A. GENERAL PROHIBITIONS

1. No person shall discharge or deposit or cause or allow to be discharged or deposited into the treatment works or public sewer any waste which contains the following:

- a. EXPLOSIVE MIXTURES

Pollutants which create a fire or explosion hazard to the treatment works, collection system or to the operation of the system. Prohibited materials include, but are not limited to, gasoline, kerosene, naphta, benzene, toluene, xylene, ethers, etc.

- b. CORROSIVE WASTES

Any waste which will cause corrosion or deterioration of the treatment works. All wastes must have a pH not less than 5. Unless otherwise stated in the Sewer Connection Permit, all waste shall have a pH not more than 10.5. Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or flouride compounds, etc.

- c. SOLID OR VISCOUS WASTES

Solid or viscous wastes which would cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the treatment works. Prohibited materials include, but are not limited to, uncomminuted garbage, bones, hides or fleshings, cinders, sand, stove or marble dust, glass, etc.

- d. OILS AND GREASE

- (1) any industrial wastes containing floatable fats, wax, grease or oils.
- (2) any industrial wastes containing more than 100 mg/l of petroleum hydrocarbons.

- e. NOXIOUS MATERIAL

Noxious or malodorous solids, liquids or gases, which, either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.

- f. RADIOACTIVE WASTES

Radioactive wastes or isotopes of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which will, or may cause damage or hazards to the treatment works or personnel operating the system.

g. EXCESSIVE DISCHARGE RATE

Industrial wastes discharged in a slug of such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.

h. HEAT

- (1) any discharge in excess of 150°F (65°C)
- (2) Heat in amounts which would inhibit biological activity in the PVSC treatment works resulting in a treatment process upset and subsequent loss of treatment efficiency, but in no case shall heat be introduced into the PVSC treatment works in such quantities that the temperature of the influent waters at the treatment plant exceed 40°C (104°F).

i. UNPOLLUTED WATERS

Any unpolluted water including, but not limited to, cooling water or uncontaminated storm water, which will increase the hydraulic load on the treatment system, except as approved by PVSC.

j. WATER

Any water added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentration limits.

2. No person shall discharge or convey, or permit to be discharged or conveyed, to the treatment works any wastes containing pollutants of such character or quantity that will:

- a. Not be susceptible to treatment or interfere with the process or efficiency of the treatment system.
- b. Violate pretreatment standards. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category must immediately conform to the USEPA timetable as well as any numeric limitations imposed by USEPA. In addition, an industrial user shall comply with any more stringent standards as determined by PVSC or other agency.
- c. Cause the PVSC treatment plant to violate its NJPDES permit, applicable receiving water standards, permit regulating sludge which is produced during treatment or any other permit issued to PVSC.

B. INSTALLATION OF SAMPLERS

The permittee shall install a 24 hour composite sampler on Outlet acceptable to PVSC with attachments for affixing seals,

which shall be maintained in proper working order at all times. The installed samplers shall draw a sample, over each operating day, which shall be representative of plant waste.

A one quart or one liter aliquot shall be set aside by (9:00 am) each operating day and refrigerated. A PVSC representative may pick up this sample during the day. Any sample not picked up by PVSC may be discarded at the end of that day.

Permittee shall insure that the sample is maintained between 1°C - 4°C during and after sample collection.

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (10/16/94) and lasting through (10/16/99) the permittee is authorized to discharge from Outlet(s) number(ed) (20406320-44100-0201). Such discharge shall be monitored by the permittee as specified below.
Volume to be determined from Two (2) Incoming Purchased Water Meter Readings Less 5% credit for evaporation Plus OCPSF Process Wastewater from the Albert Avenue Plant. Sample Point is Located Inside Fire Pump House in a Pit on the Final Discharge from Plant.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
		DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXXX	XXXXXX	Monthly	24 hr. comp.	Monthly
TSS (0530)	XXXXXX	XXXXXX	Monthly	24 hr. comp.	Monthly
pH (9000)	XXXXXX	5 to 10.5	Continuous	Recorder	*
LEL **	XXXXXX	XXXXXX	Continuous	Recorder	*
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

* Permittee to store pH and LEL Recorder Charts and have available for review by PVSC personnel on demand.

** Regulated as defined in Appendix B, Pretreatment Limitation #2 of PVSC Rules and Regulations.

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (10/16/94) and lasting through (10/16/99) the permittee is authorized to discharge from Outlet(s) number(ed) (20406320-44100-0201). Such discharge shall be monitored by the permittee as specified below. Volume to be determined from the Level Gauges on the Feed Tank. Sample Point is Located in the Pretreatment Area on the Discharge Line of the Stripper Equipment. Permittee to submit volume in accordance with PVSC Pretreatment Discharge Monitoring Report Form MR-1.

40 CFR 414.55 Subpart E.

EFFLUENT CHARACTERISTIC DISCHARGE LIMITATIONS MONITORING REQUIREMENTS

	All units are in Grams per Day		MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
	MONTHLY AVERAGE	DAILY MAXIMUM			
Volume * (a)	XXXXXX (a)	XXXXXX (a)	XXXXXXX Monthly	XXXXXX (a)	Monthly Monthly

* Regulated Volume = GPD for 211 Production Days during the 1991 Production Year.

- (a) See Page 8 of 14, Section 2 F of this Permit for Effluent Characteristics, Daily and Monthly Discharge Limitations, and Sample Type.

842893716

6 OF 14

2. In addition to the monitoring required in Section C.1 the Permittee is required to meet the following schedule of compliance:
 - A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey.
 - B. Permittee is required to submit as an attachment to the MR-2 Form Monthly, a water balance showing calculations used to report volume discharged.
 - C. N.J.P.D.E.S.

Direct Discharge outlet monitored by N.J.D.E.P. - Permit #NJ 0063738 - Newark Bay.

- D. The permittee shall notify in writing all agencies as directed by 40 CFR 403.12 (p) of any discharges classified hazardous waste under 40 CFR 261.
- E. Pretreatment Compliance Requirements - Organic Chemicals Categorical Pretreatment Standards 40 CFR 414.

Permittee to be in compliance with Organic Chemicals Categorical Pretreatment Standards 40 CFR 414.55 Subpart E.

Permittee to submit a Periodic Compliance Monitoring Report MR-1 Form for Monthly Reporting Requirements within twenty-one (21) days after the end date of each preceding Month in accordance with General Pretreatment Regulations 40 CFR 403.12 section (e).

ADDITIONAL REQUIREMENTS SECTION C2 CONTINUED:

			REGULATION CONCENTRATIONS		PERMIT LIMITS		SAMPLE TYPE
	EFFLUENT CHARACTERISTICS	VOLUME MGD	LIMITS ug/l		MASS LIMITS g/day		GRAB/ COMPOSITE
#			AVG	MAX	AVG	MAX	
1	Benzene	0.008093	57	134	1.74602	4.10469	GRAB
2	Carbon Tetrachloride	0.008093	142	380	4.34974	11.64016	GRAB
3	Chlorobenzene	0.008093	142	380	4.34974	11.64016	GRAB
4	1,2,4-Trichlorobenzene	0.008093	196	794	6.00387	24.32181	COMPOSITE
5	Hexachlorobenzene	0.008093	196	794	6.00387	24.32181	COMPOSITE
6	1,2-Dichloroethane	0.008093	180	574	5.51376	17.58277	GRAB
7	1,1,1-Trichloroethane	0.008093	22	59	0.67390	1.80729	GRAB
8	Hexachloroethane	0.008093	196	794	6.00387	24.32181	COMPOSITE
9	1,1-Dichloroethane	0.008093	22	59	0.67390	1.80729	GRAB
10	1,1,2-Trichloroethane	0.008093	32	127	0.98022	3.89026	GRAB
11	Chloroethane	0.008093	110	295	3.36952	9.03644	GRAB
12	Chloroform	0.008093	111	325	3.40015	9.95540	GRAB
13	1,2-Dichlorobenzene	0.008093	196	794	6.00387	24.32181	COMPOSITE
14	1,3-Dichlorobenzene	0.008093	142	380	4.34974	11.64016	COMPOSITE
15	1,4-Dichlorobenzene	0.008093	142	380	4.34974	11.64016	COMPOSITE
16	1,1-Dichloroethylene	0.008093	22	60	0.67390	1.83792	GRAB
17	1,2-Trans-Dichloroethylene	0.008093	25	66	0.76580	2.02171	GRAB
18	1,2-Dichloropropane	0.008093	196	794	6.00387	24.32181	GRAB
19	1,3-Dichloropropylene	0.008093	196	794	6.00387	24.32181	GRAB
20	Ethylbenzene	0.008093	142	380	4.34974	11.64016	GRAB
21	Methylene Chloride	0.008093	36	170	1.10275	5.20744	GRAB
22	Methyl Chloride (Chloromethane)	0.008093	110	295	3.36952	9.03644	GRAB
23	Hexachlorobutadiene	0.008093	142	380	4.34974	11.64016	COMPOSITE
24	Nitrobenzene	0.008093	2237	6402	68.52380	196.10610	COMPOSITE
25	2-Nitrophenol	0.008093	65	231	1.99108	7.07599	COMPOSITE
26	4-Nitrophenol	0.008093	162	576	4.96238	17.64403	COMPOSITE
27	4,6-Dinitro-O-Cresol	0.008093	78	277	2.38930	8.48507	COMPOSITE
28	Tetrachloroethylene	0.008093	52	164	1.59286	5.02365	GRAB
29	Toluene	0.008093	28	74	0.85770	2.26677	GRAB
30	Trichloroethylene	0.008093	26	69	0.79643	2.11361	GRAB
31	Vinyl Chloride	0.008093	97	172	2.97130	5.26870	GRAB
32	Total Cyanide	0.008093	420	1200	12.86544	36.75841	GRAB
33	Total Lead	0.008093	320	690	9.80224	21.13608	COMPOSITE
34	Total Zinc	0.008093	1050	2610	32.16361	79.94953	COMPOSITE
35	Acenaphthene*	0.008093	19	47	0.58201	1.43970	COMPOSITE
36	Anthracene*	0.008093	19	47	0.58201	1.43970	COMPOSITE
37	Bis(2-ethylhexyl)phthalate*	0.008093	95	258	2.91004	7.90306	COMPOSITE
38	Di-n-butyl phthalate*	0.008093	20	43	0.61264	1.31718	COMPOSITE
39	Diethyl phthalate*	0.008093	46	113	1.40907	3.46142	COMPOSITE
40	Dimethyl phthalate*	0.008093	19	47	0.58201	1.43970	COMPOSITE
41	Fluoranthene*	0.008093	22	54	0.67390	1.65413	COMPOSITE
42	Fluorene*	0.008093	19	47	0.58201	1.43970	COMPOSITE
43	Naphthalene*	0.008093	19	47	0.58201	1.43970	COMPOSITE
44	Phenanthrene*	0.008093	19	47	0.58201	1.43970	COMPOSITE
45	Pyrene*	0.008093	20	48	0.61264	1.47034	COMPOSITE

* COMPLIANCE DATE IS JULY 23, 1996 FOR THIS PARAMETER.

MASS LIMITS (g/DAY, #/DAY, Kg/DAY, ETC.) = COLUMN C X COLUMN D or E X CONVERSION FACTOR(S).
 COLUMN C = VOLUME, COLUMN D = AVG. REG. CONCENTRATION, COLUMN E = MAX. REG. CONCENTRATION.

D. MONITORING AND REPORTING**1. USER CHARGE**

Monitoring results obtained during the previous month shall be reported on Discharge Monitoring Report Form MR-2. Reports are due at PVSC within twenty-one (21) days after the end date of each preceding month. The first report is due on (*). If and Industrial User fails to submit Form MR-2 on a timely basis, the Executive Director shall estimate the use for the period. The estimates may be made thirty (30) days after the due date of the report.

2. PRETREATMENT

Monitoring results shall be reported on Discharge Monitoring Report Form, MR-1 for monthly reporting. Reports are due at PVSC within twenty-one (21) days after the end date of each preceding month.

3. REPORTS

Properly signed reports required herein shall be submitted to PVSC at the following address:

PASSAIC VALLEY SEWERAGE COMMISSIONERS
INDUSTRIAL WASTE CONTROL DEPARTMENT
600 Wilson Avenue
Newark, NJ 07105

4. TEST PROCEDURES

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. Test procedures for the analysis of pollutants shall conform to regulations contained in the PVSC Rules and Regulations, Federal, State and local laws or regulations.

5. RECORDING OF RESULTS

For each measurement of a sample taken pursuant to the requirements of this permit, the permittee shall maintain a record of the following information:

- a. The date, exact place and time of sampling;
- b. The dates the analyses were performed;
- c. The person (s) who performed the analysis;
- d. The analytical techniques or methods used;
- e. The results of all required analyses.

* Permittee has been required to submit Monitoring Reports MR-2 to PVSC since 10/21/89.

6. ADDITIONAL MONITORING BY PERMITTEE

If the permittee monitors any pollutant at the location (s) designated herein more frequently than required by this permit, using the approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Forms (PVSC Form MR-1 or MR-2). Such increased frequency shall also be indicated.

7. RECORDS RETENTION

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of (5) years.

8. DEFINITIONS

- a. The "30 day average" discharge means the average of daily values for 30 consecutive monitoring days. For the purpose of enforcement of Pretreatment Standards, consecutive samples taken and analyzed shall be considered as being taken on consecutive days even though one or more non-sampling days intervene. In applying the Pretreatment Standards where more than one but less than 30 samples have been taken and analyzed during any month, a formula, specified by USEPA, will be used to calculate the "30 day average".
- b. The "daily maximum" discharge means the highest discharge by weight or other appropriate units, as specified herein, during any calendar day.
- c. "Daily" - each operating day.
- d. "Weekly" - one day each week during a normal operating day.
- e. "Monthly" - one day each month during a normal operating day.
- f. "Composite" - a combination of individual samples obtained at regular intervals over the entire discharge day.

The volume of each sample shall be proportional to the discharge flow rate unless specifically modified by PVSC. For a 24 hour continuous discharge, a minimum of 24 individual samples shall be collected at equal intervals and at least once per hour. For continuous discharges of less than 12 hours, individual samples shall be taken at least once every 30 minutes. For discharges which are not continuous, individual samples shall be taken such that they will be representative of plant waste.

- g. "Grab" - an individual sample collected in less than 15 minutes.
- h. "Quarterly" - every three (3) months.
- i. "N/A" - not applicable.

E. MANAGEMENT REQUIREMENTS

1. CHANGE IN DISCHARGES

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or modification which will result in new, different, or increased discharges of pollutants must be reported by submission of a new PVSC Sewer Connection Application or, if such changes will not violate the effluent limitations specified in this permit, by notices to PVSC of such changes. Following such notices, the permit may be modified to specify and limit any pollutants not previously limited.

2. NONCOMPLIANCE NOTIFICATION

If, for any reason, the permittee does not comply with, or will be unable to comply with any effluent limitation specified in this permit, the permittee shall notify PVSC within 24 hours of the occurrence.

If this report is made orally, a written report containing the following information, shall be submitted within five (5) working days:

- a. A description of the discharge and the cause of the period of noncompliance;
- b. The period of noncompliance, including exact dates and times, or, if not corrected, the anticipated time the noncompliance is expected to continue, and
- c. The steps being taken to reduce, eliminate and prevent a recurrence of the noncomplying discharge.

3. FACILITIES OPERATION

The permittee shall at all times maintain in good working order and operate as efficiently as possible all pretreatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. ADVERSE IMPACT

The permittee shall take all reasonable steps to minimize any adverse impact to the PVSC Treatment Works resulting from noncompliance with any pretreatment limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. This condition in no way affects PVSC's right to suspend a permit in order to stop a discharge which presents an imminent or substantial hazard to the public health, safety or welfare to the local environment or which interferes with the operation of the PVSC Treatment Works.

5. REMOVED SUBSTANCES

Solids, sludges, filter backwash or other pollutants or hazardous waste removed in the course of pretreatment or control of wastewaters and/or the treatment of intake waters shall be disposed of in accordance with applicable Federal, State and local laws and regulations. Records documenting such disposal shall be made available to PVSC for review upon request.

F. MANAGEMENT RESPONSIBILITIES

1. RIGHT OF ENTRY

The permittee shall allow the authorized representatives of PVSC, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring methods required in this permit; and to sample any discharge of pollutants.

2. TRANSFER OF OWNERSHIP OR CONTROL

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall, in writing, notify the succeeding owner or controller of the existence of this permit, and the need to apply for a new permit, a copy of which shall be forwarded to PVSC.

3. PERMIT MODIFICATION

After notice and opportunity for a hearing, this permit may be modified, or revoked in whole or in part during its terms for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

4. TOXIC POLLUTANTS

Notwithstanding (Section C), above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition), is established under Section 307 (b) of the Federal Water Pollution Control Act (the Act), its amendments, or any other subsequent law or regulation, for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

5. CIVIL AND CRIMINAL LIABILITY

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

6. STATE LAWS

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State Law or regulation under authority preserved by Section 510, of the Federal Water Pollution Control Act. (The Act)

7. PROPERTY RIGHTS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

8. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: _____

REGULATED FLOW FROM
DOREMUS AVENUE

GAL.

GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
GALLONS

PH MONITORING AND
SAMPLING POINT
OUTLET 20406320
USER CHARGE

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE
OUTLET 20406320

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: _____ GAL.

NON-OCPSF FLOW: _____ GAL.

TOTAL FLOW: _____ GAL.

SIGNED: *Kenneth R. Way*

DATE: *6/21/94*

842893725

§ 403.11(b) introductory text amended by
3 FR 40610, October 17, 1983]

(1) Issue a public notice of request for approval of the Submission:

(i) This public notice shall be circulated in a manner designed to inform interested and potentially interested persons of the Submission. Procedures for the circulation of public notice shall include:

(A) Mailing notices of the request for approval of the Submission to designated planning agencies, Federal and State fish, shellfish, and wildlife resource agencies; and to any other person or group who has requested individual notice, including those on appropriate mailing lists; and

(B) Publication of a notice of request for approval of the Submission in the largest daily newspaper within the jurisdiction(s) served by the POTW.

(ii) The public notice shall provide a period of not less than 30 days following the date of the public notice during which time interested persons may submit their written views on the Submission.

(iii) All written comments submitted during the 30 day comment period shall be retained by the Approval Authority and considered in the decision on whether or not to approve the Submission. The period for comment may be extended at the discretion of the Approval Authority; and

(2) Provide an opportunity for the applicant, any affected State, any interested State or Federal agency, person or group of persons to request a public hearing with respect to the Submission.

(i) This request for public hearing shall be filed within the 30 day (or extended) comment period described in paragraph (b)(1)(ii) of this section and shall indicate the interest of the person filing such request and the reasons why a hearing is warranted.

(ii) The Approval Authority shall hold a hearing if the POTW so requests. In addition, a hearing will be held if there is a significant public interest in issues relating to whether or not the Submission should be approved. Instances of doubt should be resolved in favor of holding the hearing.

(iii) Public notice of a hearing to consider a Submission and sufficient to inform interested parties of the nature of the hearing and the right to participate shall be published in the

same newspaper as the notice of the original request for approval of the Submission under paragraph (b)(1)(B) of this section. In addition, notice of the hearing shall be sent to those persons requesting individual notice.

(c) *Approval authority decision.* At the end of the 30 day (or extended) comment period and within the 90 day (or extended) period provided for in paragraph (a) of this section, the Approval Authority shall approve or deny the Submission based upon the evaluation in paragraph (a) of this section and taking into consideration comments submitted during the comment period and the record of the public hearing, if held. Where the Approval Authority makes a determination to deny the request, the Approval Authority shall so notify the POTW and each person who has requested individual notice. This notification shall include suggested modifications and the Approval Authority may allow the requestor additional time to bring the Submission into compliance with applicable requirements.

(d) *EPA objection to Director's decision.* No POTW pretreatment program or authorization to grant removal allowances shall be approved by the Director if following the 30 day (or extended) evaluation period provided for in paragraph (b)(1)(i) of this section and any hearing held pursuant to paragraph (b)(7) of this section the Regional Administrator sets forth in writing objections to the approval of such Submission and the reasons for such objections. A copy of the Regional Administrator's objections shall be provided to the applicant, and each person who has requested individual notice. The Regional Administrator shall provide an opportunity for written comments and may convene a public hearing on his or her objections. Unless retracted, the Regional Administrator's objections shall constitute a final ruling to deny approval of a POTW pretreatment program or authorization to grant removal allowances 90 days after the date the objections are issued.

(e) *Notice of decision.* The Approval Authority shall notify those persons who submitted comments and participated in the public hearing, if held, of the approval or disapproval of the Submission. In addition, the Approval Authority shall cause to be published a notice of approval or disapproval in

the same newspaper as the original notice of request for approval of the Submission was published. The Approval Authority shall identify in any notice of POTW Pretreatment Program approval any authorization to modify categorical Pretreatment Standards which the POTW may make, in accordance with § 403.7, for removal of pollutants subject to Pretreatment Standards.

(f) *Public access to submission.* The Approval Authority shall ensure that the Submission and any comments upon such Submission are available to the public for inspection and copying.

§ 403.12 Reporting requirements for POTW's and industrial users.

(a) *Definition.* The term "Control Authority" as it is used in this section refers to: (1) The POTW if the POTW's Submission for its pretreatment program (§ 403.3(c)(1)) has been approved in accordance with the requirements of § 403.11; or (2) the Approval Authority if the Submission has not been approved.

(b) *Reporting requirements for industrial users upon effective date of categorical pretreatment standard—baseline report.* Within 180 days after the effective date of a categorical Pretreatment Standard, or 180 days after the final administrative decision made upon a category determination submission under § 403.8(a)(4), whichever is later, existing Industrial Users subject to such categorical Pretreatment Standards and currently discharging to or scheduled to discharge to a POTW shall be required to submit to the Control Authority a report which contains the information listed in paragraphs (b)(1)-(7) of this section. Where reports containing this information already have been submitted to the Director or Regional Administrator in compliance with the requirement of 40 CFR 123.140(b) (1977), the Industrial User will not be required to submit this information again. At least 90 days prior to commencement of discharge, New Sources, and sources that become Industrial Users subsequent to the promulgation of an applicable categorical Standard, shall be required to submit to the Control Authority a report which contains the information listed in paragraphs (b)(1)-(5) of this section. New sources shall also be required to include in this report information on the method of pretreatment the source intends to use to meet

[Sec. 403.12(b)]

applicable pretreatment standards. New Sources shall give estimates of the information requested in paragraphs (b)(4) and (5) of this section:

[403.12(b) introductory text amended by 53 FR 40610, October 17, 1988]

(1) *Identifying information.* The User shall submit the name and address of the facility including the name of the operator and owners;

(2) *Permits.* The User shall submit a list of any environmental control permits held by or for the facility;

(3) *Description of operations.* The User shall submit a brief description of the nature, average rate of production, and Standard Industrial Classification of the operation(s) carried out by such Industrial User. This description should include a schematic process diagram which indicates points of Discharge to the POTW from the regulated processes.

(4) *Flow measurement.* The User shall submit information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from each of the following:

- (i) Regulated process streams; and
- (ii) Other streams as necessary to allow use of the combined wastestream formula of § 403.6(e). (See paragraph (b)(5)(iv) of this section.)

The Control Authority may allow for verifiable estimates of these flows where justified by cost or feasibility considerations.

(5) *Measurement of pollutants.* (i) The user shall identify the Pretreatment Standards applicable to each regulated process;

(ii) In addition, the User shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the Standard or Control Authority) of regulated pollutants in the Discharge from each regulated process. Both daily maximum and average concentration (or mass, where required) shall be reported. The sample shall be representative of daily operations;

[403.12(b)(5)(iii) and (iv) amended by 53 FR 40610, October 17, 1988]

(iii) A minimum of four (4) grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide, and volatile organics. For all other pollutants, 24-hour composite samples must be obtained through flow-proportional composite sampling techniques where feasible. The Control

Authority may waive flow-proportional composite sampling for any Industrial User that demonstrates that flow-proportional sampling is infeasible. In such cases, samples may be obtained through time-proportional composite sampling techniques or through a minimum of four (4) grab samples where the User demonstrates that this will provide a representative sample of the effluent being discharged.

(iv) The User shall take a minimum of one representative sample to compile that data necessary to comply with the requirements of this paragraph.

(v) Samples should be taken immediately downstream from pretreatment facilities if such exist or immediately downstream from the regulated process if no pretreatment exists. If other wastewaters are mixed with the regulated wastewater prior to pretreatment the User should measure the flows and concentrations necessary to allow use of the combined wastestream formula of § 403.6(e) in order to evaluate compliance with the Pretreatment Standards. Where an alternate concentration or mass limit has been calculated in accordance with § 403.6(e) this adjusted limit along with supporting data shall be submitted to the Control Authority;

(vi) Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. Where 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the POTW or other parties, approved by the Administrator;

(vii) The Control Authority may allow the submission of a baseline report which utilizes only historical data so long as the data provides information sufficient to determine the need for industrial pretreatment measures;

(viii) The baseline report shall indicate the time, date and place, of sampling, and methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected pollutant Discharges to the POTW;

(6) *Certification.* A statement, reviewed by an authorized representative of the Industrial User (as defined in paragraph (k) of this section) and certified to by a qualified professional, indicating whether Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O and M) and/or additional pretreatment is required for the Industrial User to meet the Pretreatment Standards and Requirements; and

(7) *Compliance schedule.* If additional pretreatment and/or O and M will be required to meet the Pretreatment Standards; the shortest schedule by which the Industrial User will provide such additional pretreatment and/or O and M. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard.

(i) Where the Industrial User's categorical Pretreatment Standard has been modified by a removal allowance (§ 403.7), the combined wastestream formula (§ 403.6(e)), and/or a Fundamentally Different Factors variance (§ 403.13) at the time the User submits the report required by paragraph (b) of this section, the information required by paragraphs (b)(6) and (7) of this section shall pertain to the modified limits.

(ii) If the categorical Pretreatment Standard is modified by a removal allowance (§ 403.7), the combined wastestream formula (§ 403.6(e)), and/or a Fundamentally Different Factors variance (§ 403.13) after the User submits the report required by paragraph (b) of this section, any necessary amendments to the information requested by paragraphs (b)(6) and (7) of this section shall be submitted by the User to the Control Authority within 60 days after the modified limit is approved.

(c) *Compliance schedule for meeting categorical Pretreatment Standards.* The following conditions shall apply to the schedule required by paragraph (b)(7) of this section:

(1) The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the Industrial User to meet the applicable categorical Pretreatment Standards (e.g., hiring an engineer, completing preliminary plans, completing final plans, executing contract for major

[Sec. 403.12(c)(1)]

components, commencing construction, completing construction, etc.).

(2) No increment referred to in paragraph (c)(1) of this section shall exceed 9 months.

(3) Not later than 14 days following each date in the schedule and the final date for compliance, the Industrial User shall submit a progress report to the Control Authority including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the Industrial User to return the construction to the schedule established. In no event shall more than 9 months elapse between such progress reports to the Control Authority.

(d) *Report on compliance with categorical pretreatment standard deadline.* Within 90 days following the date for final compliance with applicable categorical Pretreatment Standards or in the case of a New Source following commencement of the introduction of wastewater into the POTW, any Industrial User subject to Pretreatment Standards and Requirements shall submit to the Control Authority a report containing the information described in paragraphs (b) (4)-(6) of this section. For Industrial Users subject to equivalent mass or concentration limits established by the Control Authority in accordance with the procedures in § 403.6(c), this report shall contain a reasonable measure of the User's long term production rate. For all other Industrial Users subject to categorical Pretreatment Standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the User's actual production during the appropriate sampling period.

[403.12(d) revised by 53 FR 40610, October 17, 1988]

(e) *Periodic reports on continued compliance.* (1) Any Industrial User subject to a categorical Pretreatment Standard, after the compliance date of such Pretreatment Standard, or, in the case of a New Source, after commencement of the discharge into the POTW, shall submit to the Control Authority during the months of June and December, unless required more frequently in the Pretreatment Standard or by the Control Authority or the

Approval Authority, a report indicating the nature and concentration of pollutants in the effluent which are limited by such categorical Pretreatment Standards. In addition, this report shall include a record of measured or estimated average and maximum daily flows for the reporting period for the Discharge reported in paragraph (b)(4) of this section except that the Control Authority may require more detailed reporting of flows. At the discretion of the Control Authority and in consideration of such factors as local high or low flow rates, holidays, budget cycles, etc., the Control Authority may agree to alter the months during which the above reports are to be submitted.

(2) Where the Control Authority has imposed mass limitations on Industrial Users as provided for by § 403.6(d), the report required by paragraph (e)(1) of this section shall indicate the mass of pollutants regulated by Pretreatment Standards in the Discharge from the Industrial User.

[403.12(e)(3) added, (f)-(j) added, former (h)-(i) redesignated as (k)-(o) by 53 FR 40610, October 17, 1988]

(3) For Industrial Users subject to equivalent mass or concentration limits established by the Control Authority in accordance with the procedures in § 403.6(c), the report required by paragraph (e)(1) shall contain a reasonable measure of the User's long term production rate. For all other Industrial Users subject to categorical Pretreatment Standards expressed only in terms of allowable pollutant discharge per unit of production (or other measure of operation), the report required by paragraph (e)(1) shall include the User's actual average production rate for the reporting period.

(f) *Notice of potential problems, including slug loading.* All categorical and non-categorical Industrial Users shall notify the POTW immediately of all discharges that could cause problems to the POTW, including any slug loadings, as defined by § 403.5(b), by the Industrial User.

(g) *Monitoring and analysis to demonstrate continued compliance.* (1) The reports required in paragraphs (b), (d), and (e) of this section shall contain the results of sampling and analysis of the Discharge, including the flow and the nature and concentration, or production and mass where requested by the Control Authority, of

pollutants contained therein which are limited by the applicable Pretreatment Standards. This sampling and analysis may be performed by the Control Authority in lieu of the Industrial User. Where the POTW performs the required sampling and analysis in lieu of the Industrial User, the User will not be required to submit the compliance certification required under §§ 403.12(b) (8) and 403.12(d). In addition, where the POTW itself collects all the information required for the report, including flow data, the Industrial User will not be required to submit the report.

(2) If sampling performed by an Industrial User indicates a violation, the user shall notify the Control Authority within 24 hours of becoming aware of the violation. The User shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Control Authority within 30 days after becoming aware of the violation, except the Industrial User is not required to resample if:

(i) The Control Authority performs sampling at the Industrial User at a frequency of at least once per month, or

(ii) The Control Authority performs sampling at the User between the time when the User performs its initial sampling and the time when the User receives the results of this sampling.

(3) The reports required in paragraph (e) of this section shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, which data is representative of conditions occurring during the reporting period. The Control Authority shall require that frequency of monitoring necessary to assess and assure compliance by Industrial Users with applicable Pretreatment Standards and Requirements.

(4) All analyses shall be performed in accordance with procedures established by the Administrator pursuant to section 304(b) of the Act and contained in 40 CFR Part 136 and amendments thereto or with any other test procedures approved by the Administrator. (See, §§ 136.4 and 136.5.) Sampling shall be performed in accordance with the techniques approved by the Administrator. Where 40 CFR Part 136 does not include sampling or analytical techniques for the pollutants in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappro-

[Sec. 403.12(g)(4)]

prate for the pollutant in question. sampling and analyses shall be performed using validated analytical methods or any other sampling and analytical procedures, including procedures suggested by the POTW or other parties, approved by the Administrator.

(5) If an Industrial User subject to the reporting requirement in paragraph (e) of this section monitors any pollutant more frequently than required by the Control Authority, using the procedures prescribed in paragraph (g)(4) of this section, the results of this monitoring shall be included in the report.

(h) *Reporting requirements for Industrial Users not subject to categorical Pretreatment Standards.* The Control Authority shall require appropriate reporting from those Industrial Users with discharges that are not subject to categorical Pretreatment Standards. Significant Noncategorical Industrial Users shall submit to the Control Authority at least once every six months (on dates specified by the Control Authority) a description of the nature, concentration, and flow of the pollutants required to be reported by the Control Authority. These reports shall be based on sampling and analysis performed in the period covered by the report, and performed in accordance with the techniques described in 40 CFR part 136 and amendments thereto. Where 40 CFR part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the Administrator determines that the part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the POTW or other persons, approved by the Administrator. This sampling and analysis may be performed by the Control Authority in lieu of the significant noncategorical industrial user. Where the POTW itself collects all the information required for the report, the noncategorical significant industrial user will not be required to submit the report.

[403.12(b) revised by 55 FR 30128, July 24, 1990]

(i) *Annual POTW reports.* POTWs with approved Pretreatment Programs shall provide the Approval Authority with a report that briefly describes the POTW's program activities, including activities of all participating agencies. If more than one jurisdiction is involved in the local program. The report required by this section shall be submitted no later than one year after approval of the POTW's Pretreatment Program, and at least annually thereafter, and shall include, at a minimum, the following:

(1) An updated list of the POTW's Industrial Users, including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The POTW shall provide a brief explanation of each deletion. This list shall identify which Industrial Users are subject to categorical pretreatment Standards and specify which Standards are applicable to each Industrial User. The list shall indicate which Industrial Users are subject to local standards that are more stringent than the categorical Pretreatment Standards. The POTW shall also list the Industrial Users that are subject only to local Requirements.

(2) A summary of the status of Industrial User compliance over the reporting period;

(3) A summary of compliance and enforcement activities (including inspections) conducted by the POTW during the reporting period; and

(4) Any other relevant information requested by the Approval Authority.

(j) *Notification of changed discharge.*

All Industrial Users shall promptly notify the POTW in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristic hazardous wastes for which the Industrial User has submitted initial notification under 40 CFR 403.12(p).

[403.12(j) revised by 55 FR 30128, July 24, 1990]

(k) *Compliance schedule for POTWs.* The following conditions and reporting requirements shall apply to the compliance schedule for development of an approvable POTW Pretreatment Program required by § 403.8.

(1) The schedule shall contain increments of progress in the form of dates

for the commencement and completion of major events leading to the development and implementation of a POTW Pretreatment Program (e.g., acquiring required authorities, developing funding mechanisms, acquiring equipment);

(2) No increment referred to in paragraph (h)(1) of this section shall exceed nine months;

(3) Not later than 14 days following each date in the schedule and the final date for compliance, the POTW shall submit a progress report to the Approval Authority including, as a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps taken by the POTW to return to the schedule established. In no event shall more than nine months elapse between such progress reports to the Approval Authority.

[403.12 (i) revised by 53 FR 40610, October 17, 1988]

(l) *Signatory requirements for industrial user reports.* The reports required by paragraphs (b), (d), and (e) of this section shall include the certification statement as set forth in § 403.8(a)(2)(ii), and shall be signed as follows:

(1) By a responsible corporate officer, if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a corporation. For the purpose of this paragraph, a responsible corporate officer means (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars). If authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) By a general partner or proprietor if the Industrial User submitting the reports required by paragraphs (b), (d) and (e) of this section is a partnership or sole proprietorship respectively.

[Sec. 403.12(f)(2)]

(2) By a duly authorized representative of the individual designated in paragraph (IX1) or (IX2) of this section if:

(i) The authorization is made in writing by the individual described in paragraph (IX1) or (IX2);

(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and

(iii) the written authorization is submitted to the Control Authority.

(4) If an authorization under paragraph (1)(3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (1)(3) of this section must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative.

(m) **Signatory requirements for POTW reports.** Reports submitted to the Approval Authority by the POTW in accordance with paragraph (h) of this section must be signed by a principal executive officer, ranking elected official or other duly authorized employee if such employee is responsible for overall operation of the POTW.

(n) **Provisions Governing Fraud and False Statements:** The reports and other documents required to be submitted or maintained under this section shall be subject to:

(1) The provisions of 18 U.S.C. section 1001 relating to fraud and false statements;

(2) The provisions of sections 309(c)(4) of the Act, as amended, governing false statements, representation or certification; and

(3) The provisions of section 309(c)(8) regarding responsible corporate officers. [403.12(n) amended by 53 FR 40610, October 17, 1988; revised by 55 FR 30128, July 24, 1990]

(o) **Record-keeping requirements.** (1) Any Industrial User and POTW subject to the reporting requirements established in this section shall maintain

records of all information resulting from any monitoring activities required by this section. Such records shall include for all samples:

(i) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;

(ii) The dates analyses were performed;

(iii) Who performed the analyses;

(iv) The analytical techniques/methods used; and

(v) The results of such analyses.

(2) Any Industrial User or POTW subject to the reporting requirements established in this section shall be required to retain for a minimum of 3 years any records of monitoring activities and results (whether or not such monitoring activities are required by this section) and shall make such records available for inspection and copying by the Director and the Regional Administrator (and POTW in the case of an Industrial User). This period of retention shall be extended during the course of any unresolved litigation regarding the Industrial User or POTW or when requested by the Director or the Regional Administrator.

(3) Any POTW to which reports are submitted by an Industrial User pursuant to paragraphs (b), (d), (e) and (h) of this section shall retain such reports for a minimum of 3 years and shall make such reports available for inspection and copying by the Director and the Regional Administrator. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

[403.12(o)(3) amended by 53 FR 40610, October 17, 1988]

[403.12(p) added by 55 FR 30128, July 24, 1990]

(p)(1) The Industrial User shall notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR part 261, the EPA hazardous waste

number, and the type of discharge (continuous, batch, or other). If the Industrial User discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the Industrial User: An identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve months. All notifications must take place within 180 days of the effective date of this rule. Industrial users who commence discharging after the effective date of this rule shall provide the notification no later than 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once for each hazardous waste discharged. However, notifications of changed discharges must be submitted under 40 CFR 403.12 (j). The notification requirement in this section does not apply to pollutants already reported under the self-monitoring requirements of 40 CFR 403.12 (b), (d), and (e).

(2) Dischargers are exempt from the requirements of paragraph (p)(1) of this section during a calendar month in which they discharge no more than fifteen kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than fifteen kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification.

Subsequent months during which the Industrial User discharges more than such quantities of any hazardous waste do not require additional notification.

(3) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the Industrial User must notify the POTW, the EPA Regional Waste Management

Waste Division Director, and State hazardous waste authorities of the discharge of such substance within 90 days of the effective date of such regulations.

(4) In the case of any notification made under paragraph (p) of this section, the Industrial User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

[403.12(p) Appendix added by 55 FR 30128, July 24, 1990]

Appendix—Hazardous Waste Authority Notifications under 40 CFR 403.12(p)

Environmental Protection Agency

Region I

Director, Waste Management Division,
Environmental Protection Agency, John F.
Kennedy Building, Boston, Massachusetts
02203

Region II

Director, Air & Waste Management Division,
Environmental Protection Agency, 26
Federal Plaza, New York, New York 10278

Region III

Director, Hazardous Waste Management
Division, Environmental Protection Agency,
841 Chestnut Street, Philadelphia,
Pennsylvania 19107

Region IV

Director, Waste Management Division,
Environmental Protection Agency, 343
Courtland St. N.E., Atlanta, Georgia 30365

Region V

Director, Waste Management Division,
Environmental Protection Agency, 230
South Dearborn Street, Chicago, Illinois
60604

Region VI

Director, Hazardous Waste Management
Division, Environmental Protection Agency,
1445 Ross Avenue, Suite 1200, Dallas,
Texas 75202

Region VII

Director, Waste Management Division,
Environmental Protection Agency, 726
Minnesota Avenue, Kansas City, Kansas
66101

Region VIII

Director, Hazardous Waste Management
Division, Environmental Protection Agency,
One Denver Place, 908 16th St., Suite 800,
Denver, Colorado 80202-3405

Region IX

Director, Hazardous Waste Management
Division, Environmental Protection Agency,
1235 Mission Street, San Francisco,
California 94103

Region X

Director, Hazardous Waste Division,
Environmental Protection Agency, 1235 6th
Avenue, Seattle, Washington 98101

States

New Jersey

Assistant Commissioner, Division of HQ
Waste Management, Department of

Environmental Protection, 601 East State
Street, Trenton, New Jersey 08625

[Sec. 403.12(p)(4)]

COLUMN SPECIFICATIOS FOR WASTE WATER STRIPPER
PEM ENGINEERING, INC.

Project
Reichold Chemical Corporation
Newark, New Jersey

Type of Column Specified: Sieve Tray or Valve Tray

Service: Acidic waste water effluent.

Physical Properties: Vapor flow rate - 1450 lb/hr.
Vapor density - 0.0308 lb/cu. ft.
Liquid flow rate - 7250 lb/hr.
Liquid density - 60.2 lb/cu. ft.
Surf.tension - 47.2 dyne/cm.
Centipoise - 0.306
Foam factor - 0.800
Residence time - 4.5 s.

Tower diameter: 23.25"
Tray Spacing: 12.00"
Deck thickness min.: 0.125"
Tower area: 2.95 sq.ft.
Hole area: 0.295 sq.ft.
Weir ht. min.: 1.75"
Material of construction: 316L ss.
Flow type: Single crossflow
Design pressure: 50 psia
Design temperature: 300 deg. F

Manufacturer to supply drawings and column shell requirements.

It is preferable that the manufacturer can fabricate the column shell along with the internals - please supply pricing if possible.

Project WASRW WATER STRIPPER
 Service TOL/ETBZ/ @ 16.7 PSIA
 Item COL FLOW L/V=5.0
 Date 10-Jun 1990

VAPOR lb/h 1450
 lb/ft3 0.0308
 LIQUID lb/h 7250
 lb/ft3 60.200
 dyne/cm 47.200
 cp 0.306
 Foam Factor 0.800
 Residence Time, s 4.500

Tower Diameter 23.250
 Tray Spacing 12.000
 No. Passes 1
 Valve Type 1 BDP
 No. Valves 18
 Valve Lift 0.3750
 Deck Thickness 0.1345
 DC Dimensions Side Center
 DC Inlet Width 4.000 0.000
 DC Outlet Width 3.500 0.000
 Clearance 1.500 0.000
 Inlet Weir Hgt 0.000 0.000
 Outlet Weir Hgt 1.750 0.000
 Radius Tips:1=Yes 0 0
 Seal Pans: 1=Yes 0 0

Tower Area, ft2 2.948
 Bubble Area, ft2 2.210
 Slot Area, ft2 0.320
 Liquid Load, gpm/in 0.856
 Vapor Load 0.296

Jet Flood 64%
 System Limit 28%
 Blowing Flood 39%

DC Hydraulics, in. hot liq.

	Side	Center
Dry Drop	0.81	NA
Clr Liq Hgt	1.12	NA
Tray Pres Drop	1.93	NA
Inlet Head	1.83	NA
DC Head Loss	0.02	NA
DC Stack-up	3.78	NA
DC Stack-up Limit	73%	NA

DC Inlet Velocity, ft/s
 Actual Velocity 0.099 NA
 % Allowable 13% NA
 DC Res Time Limit 61% NA
 Dry Drop, in H2O 0.78

Note : All dimensions are in inches.

Warnings:

Liquid head exceeds dry drop, tray may weep.

Design Notes: Run Number 7273

Estimates Only - Not Recommended for Final Design

842893733

EQUIPMENT ITEMS

ITEM NO	DESCRIPTION	DIMENSIONS	SERVICE SIZE	REMARKS
F1/F2	FILTERS BAG TYPE	6" Ø x 1'-0"	15 GPM	
10	SIGHT GLASS	CHEMFLOW 1"		
E1	VENT CONDENSER	6" Ø x 24"	25 ft ² BCF PROCESS	FLUGITIVE EMISSIONS
E2	VAPOR COND	20" Ø x 48"	200 ft ² BCF CONDENSER	
E3	BALLAST TUBE HEATER	8" Ø x 42"	75 ft ²	SUPPLY SUPPLEMENTAL
E4	BOTTOMS COOLER?	24" Ø x 48"	125 ft ² COOLER	
E5	FEED PREHEATER	18" Ø x 48"	100 ft ² 3KSS	
SE1	ACCUMULATOR SEPARATOR	2' Ø x 4'-6"	100 GAL	OIL/H ₂ O SEPARATOR
S1	STEAM SEPARATOR	6" Ø x 1'-0"		STEAM DRIER
TK-1	SUMP	42" Ø x 42" SS	325 GAL	

842893734

WASTEWATER STRIPPER

5K-RCC / WASTE

STREAM NO	DESCRIPTION	COMPOSITION	TEMP °F	PRESS PSIA	FLOW lb/hr	EST
1	PROCESS FEED	LIQUID WASTEWATER	80	<50	7250	
2	" "	"	140	<50	7250	
3	" "	"	200	25	7250	
4	LIQ REFLUX	REFLUX RTN SAT'D ORGAN. WATER VAPOR	200+	25	1450	WATER 700 7 6
5	VAPOR	+ ORGANICS	213	15	1450	
6	PROCESS STEAM	STRIPPING STEAM	280	50	165	
7	WASTE REC SOLVENT	TOL/ETBE/MK/XYL	75	ATM	0.14	
8	WATER TO POTW	STRIPPED WATER	95	25	165	
A	CHILLED OR CTW	COOLING WATER	EST 50	75	3500	
B	BALLAST STEAM	HEATING STEAM	292	60	100	
C	FEED PREHEAT	PLANT STEAM	315	100	50	

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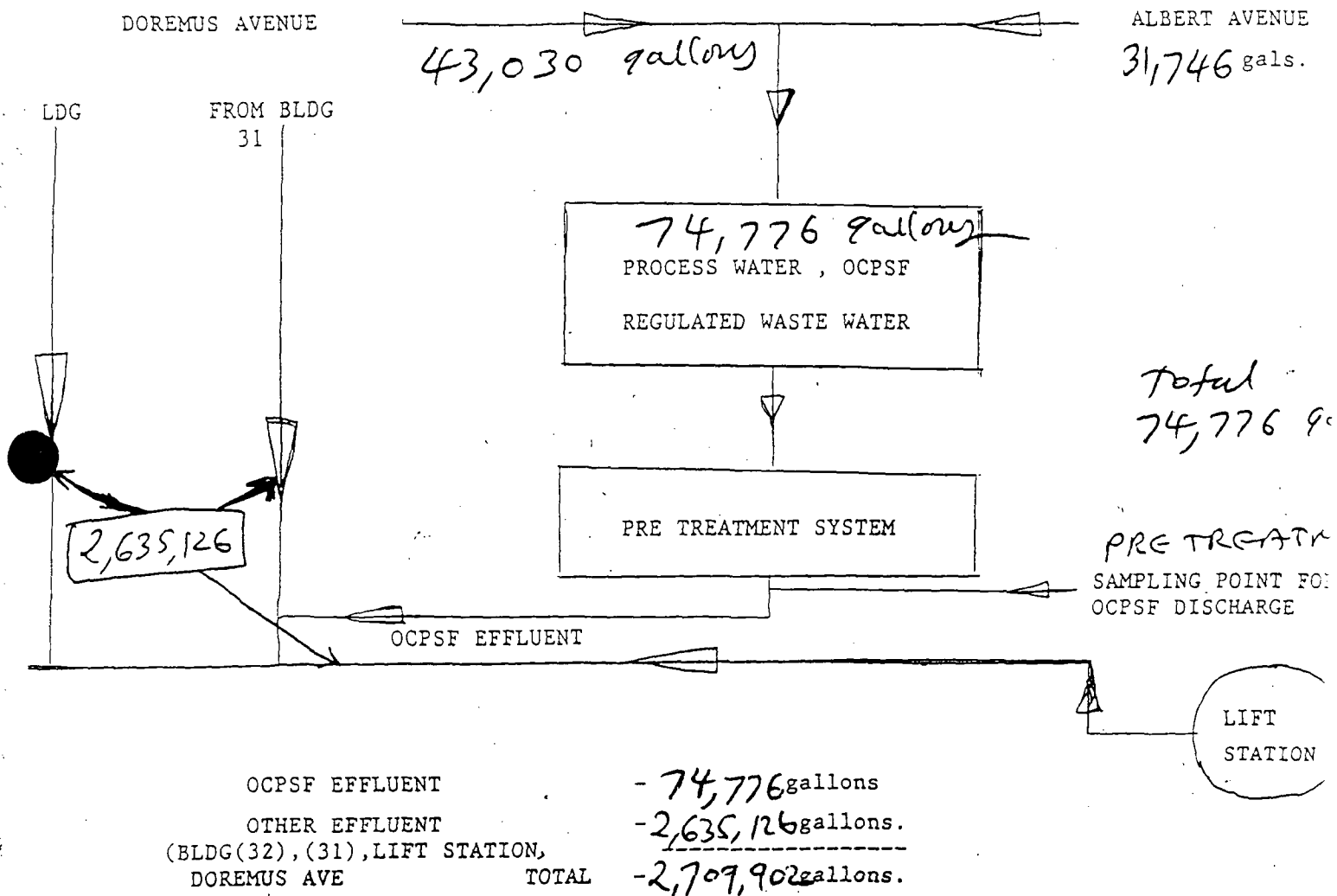
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REICHOLD CHEMICALS , INC.
400 DOREMUS AVENUE
NEWARK, NEW JERSEY 07105
OCT-DEC. 1990

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED FLOW





RECEIVED JAN 18 1990

O'BRIEN & GERE

January 11, 1990

Mr. Art Dieffenbach
Plant Engineer
Reichhold Chemicals, Inc.
400 Doremus Avenue
Newark, New Jersey 07105

Re: Reichhold Chemicals, Inc. -
OCPSF Program

File: 3208.025 #2

Dear Art:

Enclosed please find two (2) drawings and a description of operations for the proposed OCPSF program to be implemented at the Reichhold Chemicals facility in Newark, New Jersey. The drawings include the Building 31 Floor Plan, which outlines the proposed locations of existing and new equipment to be used in the process, and the Process Flow Diagram, which represents the proposed operational process flows. It should be noted that all enclosed information are first run drafts and are subject to revisions pending comments from Reichhold Chemicals, Inc.

The operation of the system is divided into the four (4) operating areas which are; Tank 1 (Tank 66), the holding tank area (Tanks 4 & 5), the transfer truck area, and the future treatment area. The proposed system collects and adjusts the pH of process flows in Tank 66 (Tank 1), as currently occurs; however, pH adjustment will be carried out automatically with the installation of new equipment. Tank 66 will be retrofitted for use or the process. Tank 66 will primarily discharge to Tank 4, a new 15,000 gallon tank, which will, in turn, discharge to the transfer truck area of the future treatment area. Tank 5, the existing 10,000 gallon rectangular tank retrofitted for this program, will primarily receive flows from the transfer truck area and discharge to either the future treatment area in the transfer truck area. Tanks 4 and 5 are expected to have a capacity to hold approximately three (3) days of flow. Proposed locations for this equipment are shown on the building floor plan.

Mr. Art Dieffenbach
January 11, 1990
Page 2

The enclosed text and drawings provide a more complete and detailed overview of the proposed program. O'Brien & Gere looks forward to receiving your input on the enclosed information and working with you to successfully complete this program for Reichhold Chemicals. Please do not hesitate to call me with comments or inquiries concerning the enclosed information.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Donald E. Stone, Jr., P.E.
Managing Engineer

ALC:lam

cc: Mr. David Bright, Reichhold Chemicals, Inc.
Mr. Steven Roland, O'Brien & Gere Engineers, Inc.
Mr. Ronald Hovey, O'Brien & Gere Engineers, Inc.

REICHHOLD CHEMICALS, INC.
OCPSF PROGRAM
DOREMUS AVENUE, NEWARK FACILITY

Segregation, Conveyance, and Collection Project
System Operation

I. TANK 1 (TANK 66)

A. Influent sources

1. Beckamine Process
 - a. Valve V-3 normally open
 - b. Influent line equipped with suction relief to prevent syphoning
2. Tank 67 & floor drains
 - a. Valve V-4 normally open
 - b. Influent line equipped with suction relief to prevent syphoning
3. Scrubber drains
 - a. Valve V-5 normally open
 - b. Influent line equipped with suction relief to prevent syphoning
4. Recirculation
 - a. Valve V-6 normally closed
 - b. Valves V-7, V-8, and V-9 normally open
 - c. Influent line equipped with suction relief to prevent syphoning

B. Effluent destinations

1. Tank 4 (primary mode of operation)
 - a. Level sensor LS-1 indicates Tank 1 is full
 - b. Level sensors LS-2 and LS-3 indicate that Tanks 4 and 5 are not full.
 - c. pH sensor pH-2 indicates $5 < \text{pH} < 8$ (within range)
 - i. When pH is within range, 3-way pneumatic valve CV-1 directs flow to Tank 4 (or Tank 5)
 - ii. When pH is out of range, 3-way pneumatic valve CV-1 recirculates flow back to Tank 1
 - iii. Pneumatic valve CV-1 is operated via solenoid valve SV-1
 - d. Flow via pump P-1, controlled as in (a) and (b) above, plus P-1 stops when LS-1 indicates low level
 - e. Valves V-10 and V-12 normally open
 - f. Valve V-13 normally closed

2. Tank 5 (secondary mode of operation)
 - a. B.1.(a-d) apply
 - b. Valves V-10 and V-14 normally open
 - c. Valve V-12 closed
 - d. Valve V-13 open
 3. Recirculation (out of range pH)
 - a. pH out of range as defined in B.1.(c)i-iii
 - b. While Tank 1 refills after emptying
 - c. Valves set as in A.4. above
 4. Sample port (open valve V-6)
- C. pH adjustment
1. pH probe pH-1 reading >8 activates pump P-2 to pump acid from Tank 2 to Tank 1
 2. pH probe pH-1 reading <5 activates pump P-3 to pump caustic from Tank 3 to Tank 1
 3. Mixer M to provide mixing in Tank 1 during pH adjustment
 4. Valves V-1 and V-2 normally open
 5. High level alarms HHL-2 and HHL-3 indicate possible leak or spill in containment area
- D. Miscellaneous
1. High level alarm HHL-1 to provide backup warning to warn of possible overflow condition in Tank 1
 2. Temperature indicator TI for information
 3. Level indicator LI for information
 4. Vent from tank to atmosphere

II. TANKS 4 & 5

- A. Influent sources to Tank 4
1. Tank 1 (primary mode of operation)
 - a. Valve V-12 normally open
 - b. Valve V-13 normally closed
 - c. Influent line equipped with suction relief
 2. Tank Truck (secondary mode of operation)
 - a. Valves V-16, V-12 and V-13 open
 - b. Valves V-10, V-14 closed
 - c. Influent line equipped with suction relief

3. Recirculation from Tank 4 (primary mode of operation)
 - a. Valves V-21 and V-34 normally closed
 - b. Valves V-22, V-20, V-18, and V-11 normally open
 - c. Pneumatic valve CV-2 directs flow to recirculate
 - i. Recirculates when level sensor LS-2 indicates that Tank 4 is empty or refilling or that treatment plant wet well is full
 - ii. Recirculates when valve control manually set to recirculate
 - d. Influent line equipped with suction relief
 - e. Pump P-4 operated manually or automatically
4. Recirculation from Tank 5 (secondary mode of operation)
 - a. Valves V-35, V-25 and V-22 closed
 - b. Valves V-24, V-23, V-21, V-20, V-18, and V-11 open (V-24, 20, 18, and 11 normally open)
 - c. Pneumatic valve CV-2 set manually to recirculate
 - d. Influent line equipped with suction relief
 - e. Pump P-4 set to "hand", Pump P-5 set to "off"
5. Overflow from Tank 5
 - a. via 4 inch equalization line
 - b. butterfly valves normally open

B. Effluent destinations from Tank 4

1. Treatment plant (primary mode of operation)
 - a. Valves V-21, V-34, and V-31 closed
 - b. Valves V-22, V-20, V-18, V-19, V-28, and V-30 open (V-18 normally open)
 - c. Pneumatic valve CV-2 either manually set to direct flow to treatment system or non- full treatment plant wet well indicator automatically directs flow and Tank 5 is not discharging.
2. Transfer truck (temporary primary mode of operation)
 - a. Valves V-21, V-34, V-30, and V-32 normally closed
 - b. Valves V-22, V-20, V-18, V-19, V-28, V-31, V-33, and V-17 open
 - c. Pneumatic valve CV-2 set manually in direction of treatment system
3. Recirculate to Tank 4 (primary mode of operation)
 - a. Valves V-34, V-21, normally closed

- b. Valves V-22, V-20, V-18, and V-11 open
- c. Pneumatic valve CV-2 set to recirculate flow
 - i. Recirculates when level sensor LS-2 indicates that Tank 4 is empty or refilling or that treatment plant wet well is full
 - ii. Recirculates when valve control manually set to recirculate
- 4. Recirculate to Tank 5 (secondary mode of operation)
 - a. Valves V-20, V-34, and V-24, normally closed
 - b. Valves V-22, V-21, V-23, V-25, V-26, and V-15 open
 - c. Pneumatic valve CV-3 set to recirculate
- 5. Overflow to Tank 5
 - a. two butterfly valves normally open
- 6. Sample Port (open valve V-34)

C. Influent Sources to Tank 5

- 1. Tank 1 (secondary mode of operation)
 - a. Valve V-13 and V-14 open
 - b. Valve V-12 closed
 - c. Influent line equipped with suction relief
- 2. Tank Truck (primary mode of operation)
 - a. Valve V-14 and V-16 open
 - b. Valve V-13 normally closed
 - c. Influent line equipped with suction relief
- 3. Recirculation from Tank 5 (primary mode of operation)
 - a. Valves V-24, V-25, V-26, and V-15 open
 - b. Valves V-35 and V-23 normally closed
 - c. Pneumatic valve CV-3 set to recirculate
 - d. Influent line equipped with suction relief
 - e. Pump P-5 operated manually or automatically
- 4. Recirculation from Tank 4 (secondary mode of operation)
 - a. Valves V-22, V-21, V-23, V-25, V-26 and V-15 open
 - b. Valves V-34, V-20, V-35, and V-24 closed
 - c. Pneumatic valve CV-3 set to recirculate
 - d. Influent line equipped with suction relief
 - e. Pump P-5 set to "hand", Pump P-4 set to "off"
- 5. Overflow from Tank 4
 - a. via 4 inch equalization line
 - b. butterfly valves normally open

D. Effluent Destinations from Tank 5

1. Treatment plant (primary mode of operation)
 - a. Valves V-35, V-31, and V-23 closed
 - b. Valves V-24, V-25, V-26, V-27, V-29, and V-30 open
 - c. Pneumatic valve CV-3 either manually set to direct flow to treatment system or non-full treatment plant wet well indicator automatically directs flow and Tank 5 not discharging.
2. Transfer Truck (temporary primary mode of operation)
 - a. Valves V-35, V-23, and V-30 closed
 - b. Valves V-24, V-25, V-26, V-27, V-29, V-31, V-33, and V-17 open
 - c. Pneumatic valve CV-3 set manually in direction of treatment system
3. Recirculate to Tank 5 (primary mode of operation)
 - a. level sensor LS-2 indicates Tank 5 is filtering
 - b. Valves V-24, V-25, V-26, and V-15 open
 - c. Valves V-35 and V-23 normally closed
 - d. Pneumatic valve CV-3 set for recirculate
 - e. Influent line equipped with suction relief
4. Recirculate to Tank 4 (secondary mode of operation)
 - a. Manually controlled
 - b. Valves V-35, V-25, and V-22 closed
 - c. Valves V-24, V-23, V-21, V-20, V-18, and V-11 open (V-24, 20, 18, and 11 normally open)
 - d. Pneumatic valve CV-2 set to recirculate
 - e. Influent line equipped with suction relief.
5. Overflow to Tank 4
 - a. via 4 inch equalization line
 - b. butterfly valves normally open
6. Sample Port (open Valve V-35)

E. Miscellaneous

1. High level alarms HHL-4 and HHL-5 to provide backup warning to warn of possible overflow condition in Tanks 4 and 5, respectively.
2. Temperature indicator TI for information
3. Level indicator LI for information
4. pH sensor pH-3 and pH-4 for information in Tanks

- 4 and 5, respectively
5. Vent from tank to atmosphere
6. Equalization line with two (2) butterfly valves (normally open) for overflow protection

III TRANSFER TRUCKS

A. Influent Sources

1. Tank 4
 - a. Valves V-22, V-20, V-18, V-19, V-28, V-31, V-33 and V-17 open
 - b. Valves V-34 and V-21 normally closed
 - c. Pneumatic valve CV-2 set manually in direction of treatment system
2. Tank 5
 - a. Valves V-35 and V-23 normally closed
 - b. Valves V-24, V-25, V-26, V-27, V-29, V-31, V-33 and V-17 open
 - c. Pneumatic valve set manually in direction of treatment system
3. Future Treatment Plant
 - a. Future treatment plant recirculation line and inflow line capped off. Until treatment plant begins operation, inflow and recirculation lines are controlled by normally closed valves V-30 and V-32, respectively.

B. Effluent Destinations

1. Tank 5 (primary mode of operation)
 - a. Valves V-16 and V-14 open (V-16 is normally closed)
 - b. Valve V-13 normally closed
 - c. Level sensor LS-3 must indicate tank is not full
2. Tank 4 (secondary mode of operation)
 - a. If level sensor LS-3 indicates Tank 5 is filled
 - b. Valves V-16, V-13, and V-12 open (V-16 is normally closed)
 - c. Valve V-14 and V-10 closed

IV. FUTURE TREATMENT PLANT

A. Influent Sources

1. Tank 4
 - a. Valve V-31 and V-21 closed
 - b. Valve V-22, V-20, V-18, V-19, V-28 and V-30 open
 - c. Pneumatic valve CV-2 either manually set to direct flow to treatment system or non-full treatment plant wet well indicator automatically directs flow and Tank 5 not discharging
2. Tank 5
 - a. Valve V-31 and V-23 closed
 - b. Valves V-24, V-25, V-26, V-27, V-29, And V-30 open
 - c. Pneumatic valve CV-3 either manually set to direct flow totreatment system or non-full treatment plant wet well indicator automatically directs flow and Tank 4 not discharging
3. Plant Recirculation
 - a. Plant recirculation occurs when Valves V-30, V-31, and V-32 are open
 - b. Valve V-33 is closed
 - c. Valve V-30 and V-32 are normally closed and the lines controlled are capped until treatment plant installation

B. Effluent Destination

1. P.V.S.C
 - a. Discharge to public sewer system. Valve controlling line to sewer is open and valve controlling recirculation line is closed
2. Plant Recirculation
 - a. Recirculation occurs when valve controlling sewer line access is closed and recirculation valve is open.
 - b. Valve V-30 and V-32 are normally closed and the lines controlled are capped until treatment plant installation
3. Transfer Truck
 - a. Discharge to transfer truck via recircualtion system. Valve V-31 is closed.

C. Temporary Operation

1. Valve V-30 and V-32 are normally closed and lines controlled are capped until treatment plant installation.

DRAWING TRANSMITTAL

FED-X

Peroxidation Systems, Inc.

4400 E. Broadway, Suite 602
Tucson, Arizona 85711-3558
Telephone (602) 327-0277

Job No.: 1046

Job Name: Reichhold - NJ

Equipment: LV 60 Pretreatment Equip. Needed

Customer: Reichhold Chemicals

Customer Ref. No: PO #125877

Job Location: Newark, NJ

Specification Section:

Drawings and data as listed on the attached pages have been distributed as shown below. This information describes equipment to be furnished by Peroxidation Systems, Inc. for subject order. Data marked "FOR APPROVAL" must be examined by persons authorized to confirm suitability for project requirements. For approval data, indicate approval and/or comments on each item and RETURN TWO COPIES OF EACH APPROVAL DOCUMENT TO PEROXIDATION SYSTEMS, INC. ATTENTION ENGINEERING DEPARTMENT. EQUIPMENT DELIVERY SCHEDULE IS BASED ON DATA APPROVAL WITHIN TWO WEEKS OF TRANSMITTAL DATE. Certified or final copies need not be returned.

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								Newark, NJ 07105			
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								P.O. Box 1433, Pennsicola, FL 32596-1433			
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**4400 E. Broadway, Suite 602
Tucson, Arizona 85711-3558
Telephone (602) 327-0277**

Job No.: 1046

Job Name: Reichhold - NJ

Equipment: LV 60 Pretreatment Equip. Needed

Customer: Reichhold Chemicals

Customer Ref. No.: PO #125877

Job Name or Location: Newark, NJ

Specification Section:

Status Code: 1. Approved, proceed with fabrication
(PSI use only) 2. Approved as noted, proceed with fabrication
3. Approved as noted, proceed with fabrication
revise and resubmit for confirmation
4. Approved as noted, revise and resubmit
5. Not approved, revise and resubmit

6. No Comment

* Dist. Code:

A: For Approval
C: Certified
F: Final

REMARKS

Date: 10/26/89
Job No: 1046

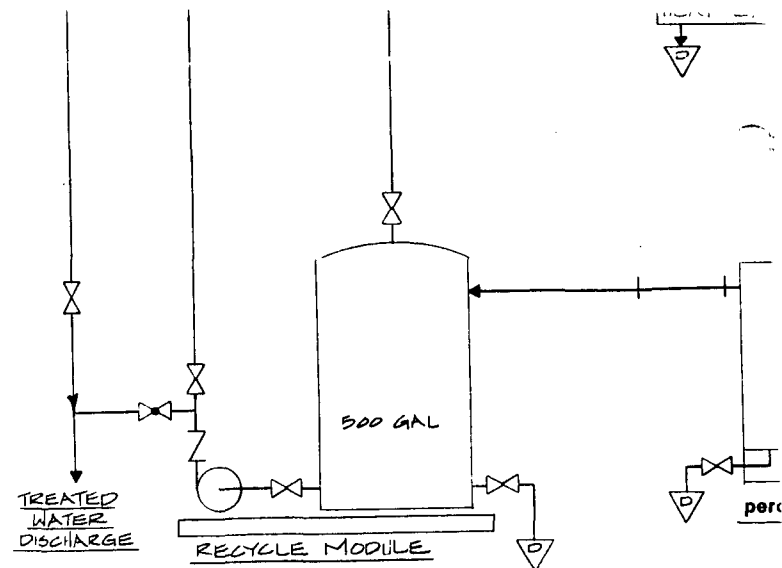
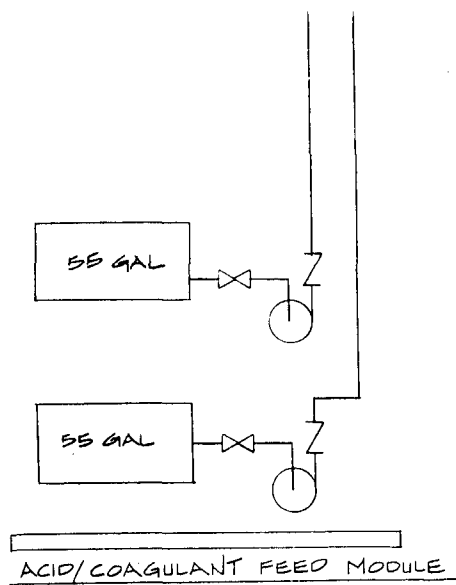
PSI is proceeding with Piping and Instrument diagram and component procurement to support the conceptual design shown by the flow diagram enclosed. Please return the flow diagram with your approval/comments as soon as possible.

Dimensional and connection drawings of modules by PSI will follow upon your approval of the flow diagram.

C

B

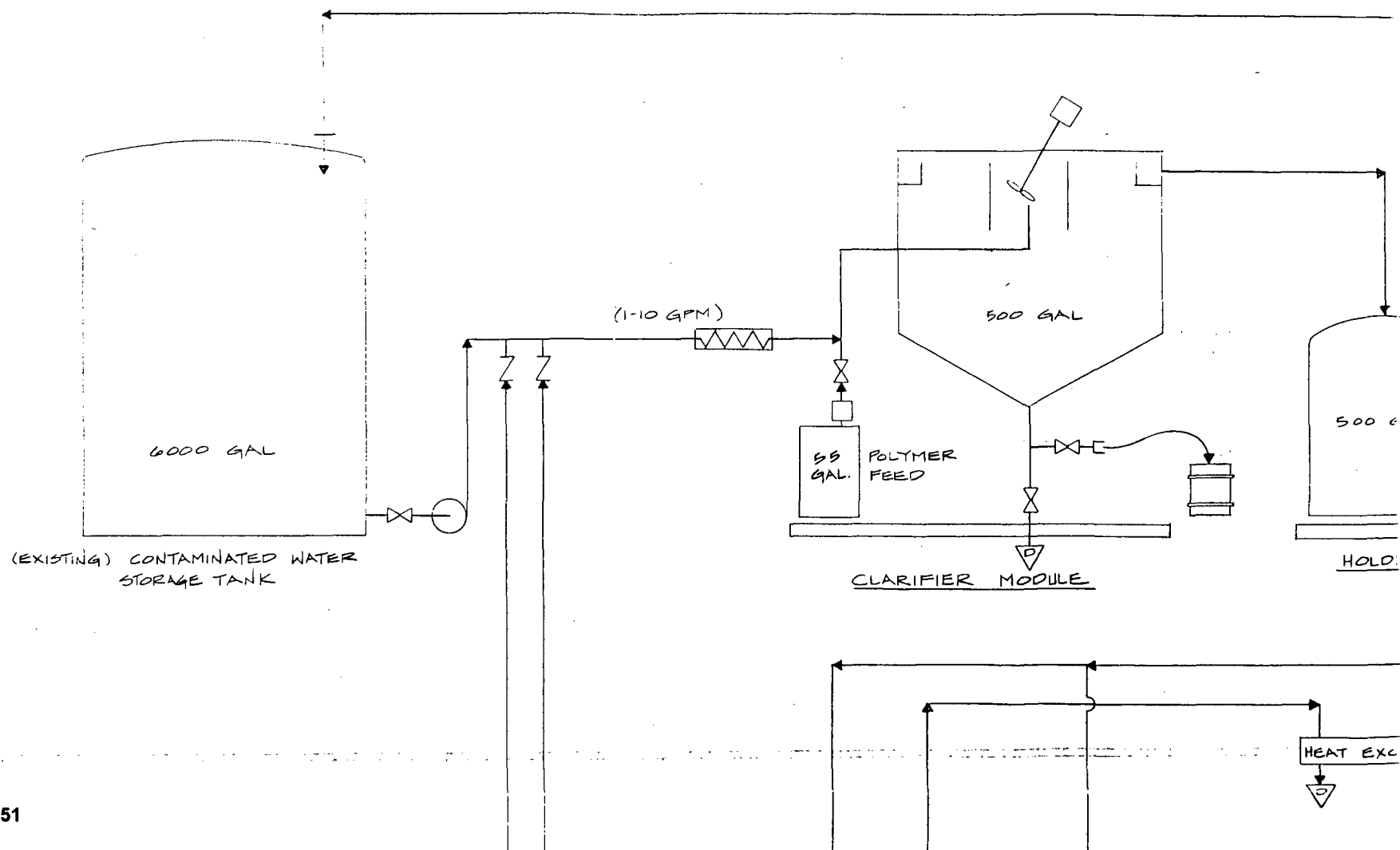
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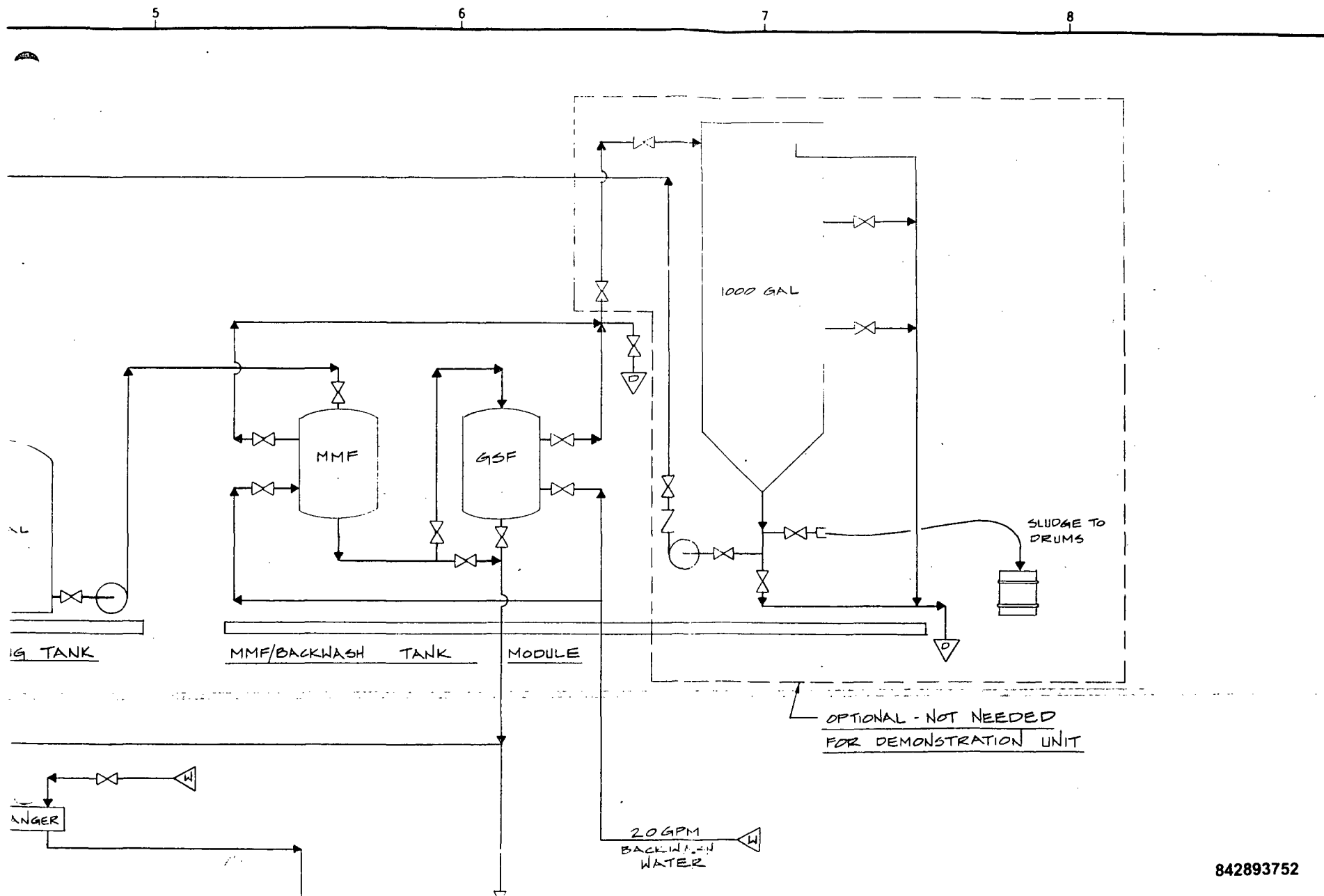
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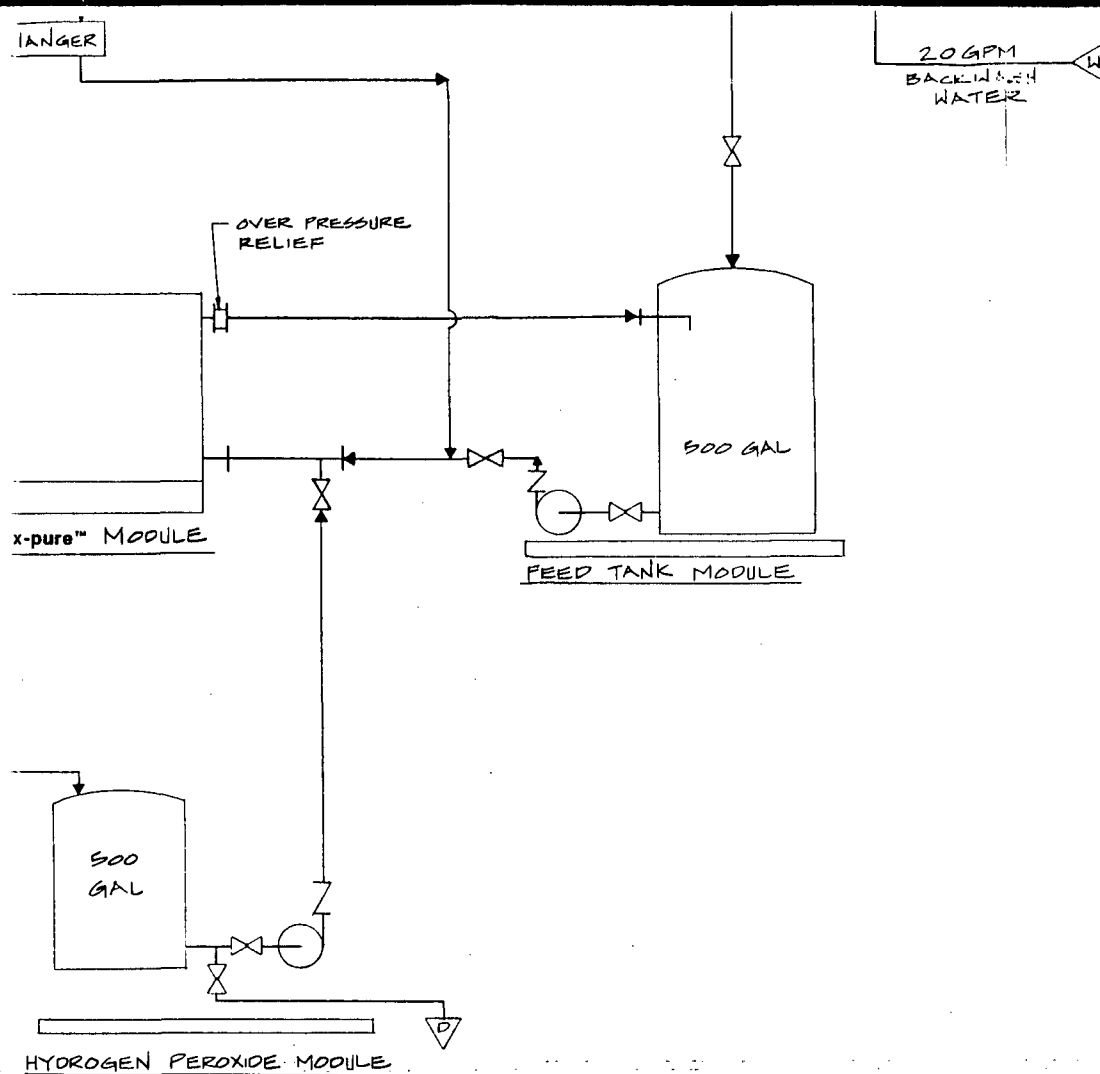
REV

DWG. NO. 100-1-1001



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REV. NO.	DR.	CHK.	APPR.	DATE	<p>THE INFORMATION TRANSMITTED HEREWITH IS NOT PUBLIC, BUT BELONGS TO PEROXIDATION SYSTEMS, INC. WHO HAS PROVIDED IT SOLELY FOR AN EXPRESSLY RESTRICTED USE. ALL PERSONS, FIRMS OR CORPORATIONS WHO RECEIVE SUCH INFORMATION SHALL BE DEEMED BY THEIR ACT OF RECEIVING AND/OR USING SAME TO HAVE AGREED TO MAKE NO DUPLICATION OR OTHER DISCLOSURE OR USE WHATSOEVER OF ANY OR ALL SUCH INFORMATION EXCEPT SUCH RESTRICTED USE AS IS EXPRESSLY AUTHORIZED IN WRITING BY PEROXIDATION SYSTEMS, INC.</p>
<p>Peroxidation Systems, Inc. POLLUTION ABATEMENT SERVICES AND EQUIPMENT</p>					
<p>PROJECT: REICHOOLD CHEMICALS, NEWARK, NJ</p>					
<p>DR. <i>SDS</i> CHK. <i>RLP</i> APPR. <i>RLP</i> DATE <i>8/25/89</i> SCALE <i>NONE</i></p>					<p>perox-pure™ TREATMENT SYSTEM FLOW DIAGRAM</p>
<p>DRAWING NUMBER NENJ-1-001</p>					<p>REV.</p>

842893753

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6

7

8

NEWARK PLANT

Standard Operating Procedure (SOP)

Subject: STEAM STRIPPER OPERATING PROCEDURES SOP No.: ND94-035
INCLUDING TANKS 66 & 67 Page No.: 1
Supersedes: 07/18/94 Date Issued: 07/15/94
Last Revision: 07/18/94 Effective Date: 07/28/94

- | | | |
|-----|----------------|--|
| 1.0 | Purpose: | To provide a series of written procedures for safety and effectively operating the steam stripper and its associated equipment. |
| 2.0 | Applicability: | This procedure applies to all trained Operations personnel. |
| 3.0 | Safety Issue: | Exposure to solvents and hot water, inhalation risk, exposure to strong acids and bases, potential environmental spill outside plant (PVSC). |

4.0 Approvals: Plant Manager: _____ DATE: _____

Plant Engineer: L. H. E. Schenck DATE: 8/03/94

EHS Manager: Kenneth A May DATE: 7/28/99

5.0 Procedure:

See Attached.

July 12, 1994

WASTE WATER STRIPPER: CONDENSED OPERATING PROCEDURE

1. Adjust PH of Waste Water in T-138 to 5.5 to 6.0.
2. Turn on power to instruments in Dowtherm vaporizer room. Switch is behind panel.
3. Set Feed Water control (FC 901) to 10 GPM.
4. Set Steam Flow control (FC 902) to 1500 PPH.
5. Stripper column level should be set at 28.
6. Feed Tank level should be set at 50 to 55.
7. Open water valve to Condenser.
8. Open manual steam valves to Stripper column.
9. Set valves on manifold to go from Stripper back to T-138.
10. Set valves on Stripper column on Feed Tank to go to pumps through meters control valves. Close control valve by-pass valves.
11. Set valves from T-138 to Feed pump # 1 to Filter housings to Feed Tank.
12. After steam flow has been on for 15 to 30 minutes, start pumps #1, 2 & 3 to begin circulation of water to column and back to T-138.
13. Circulate water until top column temperature (# 6) reaches 96 degrees C Min, then circulate for 30 minutes longer.
14. After 30 minutes with temperatures 96 degrees minimum, switch valves and send water to sewer.
15. Increase water flow as top column temperature permits.

842893755

OPERATING PROCEDURE: WASTE WATER STRIPPER

The purpose of the Waste Water Stripper is to remove organic solvents from our process waste water before it is discharged to the sewer system. This is required by Federal regulations and is accomplished by pumping the contaminated water through the stripper column where it is steam stripped.

A. Start Up Procedure

1. Get sample from T-138 after agitating it for 20 minutes and run PH on the water sample. Adjust PH on waste water in T-138 to 5.5 to 6.0 using either liquid caustic to raise the PH and Phosphoric Acid or Acetic Acid to lower the PH.
2. With PH in T- 138 within the range of 5.5 to 6.0, turn on power to the control instrument in the Dowtherm vaporizer room. The Annunciator panel alarms will sound and light up indicating that alarm systems are working. Press reset buttons to silence the audible alarms. Lights will stay lit until alarm is actually corrected when operation is begun.
3. Allow instruments to complete their internal checks and adjust set points at desired levels for operation.
4. Open manual steam valve before the steam control valve, all the way; then open the manual steam valve, after the control valve. This will start steam flow to the stripper column to heat up the column. Steam line pressure gauges should read 60 pounds pressure with steam valves open as stated. Steam flow set point is at 1500 pounds per hour.
5. Set up valves in system to prepare for water stripping while steam flow to the stripper column is pre-heating the column.
 - A. Open valve in manifold from stripper, isolation valve on manifold, and valve to T-138. Close valve to sewer and all other valves on manifold.
 - B. Open upper valve at bottom of stripper column to pump.
 - C. Open valves from stripper column pump on both sides of control valve. Close control valve by pass valve.

- D. Check level in stripper column, and if it is greater than 28 inches on the instrument, turn the stripper column pump # 3 on and pump the level down to 28 inches or less. Shut the pump off when level is reached.
- E. Open valve at side of feed tank to stripper column feed pump (# 2) and open valves on both sides of control valve in line to stripper column. Close control valve bypass valve. Feed Tank level set point is 50 inches. If level is above 55 inches, pump excess using # 2 pump to T-138, or to stripper column, then back to T-138.
- F. Open valves (2) from T-138 bottom to pump (# 1). Close valve to T-138 circulating pump.
- G. Open inlet and outlet valves on one of the filters and the valves on both sides of the control valve to the feed tank. Close the control valve bypass valve.
- H. Make sure valves from pump # 4 (receiver tank pump) are open to the feed tank and that receiver tank valve to pump is open. Level in receiver tank will turn this pump on and off
6. With all valves set and after steam has been on the column for 15 to 30 minutes, start pump # 2 - (column feed pump) with instrument set at approximately 10 GPM.
7. Start pump # 1, (T-138 pump to feed tank) to maintain level in feed tank.
8. Start pump # 3 (column bottom pump) to begin circulation of water from column back to T-138.
9. With pumps running and feed water circulating through the stripper and stripped water back to T-138, check temperatures on strip recorder, # s 3, 4 and 6.
10. Temperatures should be:
3 - 97 degrees to 100 degrees C
4 - 98 to 101 degrees C
6 - 96 degrees minimum
- Column pressure drop - # 13 should be 30- 50 inches.
11. When operating temperatures are reached, continue to circulate column water back to T-138 for 30 minutes to ensure steady operation.
12. At end of 30 minutes circulation, switch column discharge to sewer and close valves circulating back to T-138. Temperature at top of stripper column (# 6 on recorder) must be 96 degrees minimum before sending to sewer.

13. Approximately 15 to 20 minutes after sending water to the sewer go to the pump house and check PH reading on instrument, must be between 5 to 10.5. If not between 5 and 10.5, call for assistance and switch stripper column back to circulate to T-138.

14. Stripper operating parameters should be as follows:

- A. Feed water rate (FC 901) 10 to 20 GPM
- B. Steam flow rate (FC 902) 1200 to 1800 PPH
- C. Stripper column level - 28 inches
- D. Feed tank level - 50 to 55 inches
- E. Decanter receiver level - 1 to 10 inches
- F. Top column Temp. # 6 - 96 degrees C minimum
- G. Column pressure # 13 - 30 to 50 inches

Most important control parameter is "F" top column temperature # 6.

WASTE WATER STRIPPER SHUT DOWN

1. Close steam valve in supply to Stripper.
2. Shut off pump # 1 (T-138 feed to Feed Tank).
3. Close valves (2) on T-138 to pump # 1.
4. Close valves (2) in and out of filter.
5. Shut off pump # 2 (Feed Pump to column).
6. Close valve (1) on Feed Tank to pump # 2.
7. Wait 5 minutes, then shut off pump # 3.
(Stripper column discharge pump).
8. Close valve (1) on column to pump # 3.
9. Close valves (2) on manifold from column and to sewer.
Turn off T-138 AGIT.
10. Shut off power to instruments in Boiler room.

WASTE WATER STRIPPER EMERGENCY SHUT DOWN PROCEDURES

1. Close steam valve in supply to Stripper.
2. Shut off pump # 1 (T-138 feed to Feed Tank).
3. Close valves (2) on T-138 to pump # 1.
4. Shut off pump # 2 (Feed Pump to column).
5. Close valve (1) on Feed Tank to pump # 2.
6. Shut off pump # 3 (stripper column discharge pump)
7. Close valve (1) on column to pump # 3.
8. Close valves (2) on manifold from column and to sewer.
Turn off T-138 AGIT.

In an emergency (spill, fire, loss of electrical, etc.), shut down the Stripper per the instructions above only if the emergency does not require an immediate evacuation.

STEAM STRIPPER STRIP CHART RECORDER

1. Temp. feed to Feed Tank, degree centigrade
2. Temp. feed to Stripper column, degree centigrade
3. Temp. Stripper column midpoint, degree centigrade
4. Temp. Stripper column bottom, degree centigrade
5. Temp. waste water to discharge, degree centigrade
7. Temp. Solvent Receiver, degree centigrade, degree centigrade
8. Temp. Condenser cooling water out, degree centigrade
9. Column feed flow (GPM)
10. Column discharge (GPM)
11. Steam to column (pounds per hour)
12. Recycle water to Feed tank (GPM) out
13. Column pressure drop (in. H₂O)
14. Spare
15. Bottom of Stripper column level (inches)
16. Feed Tank level (inches)
17. Solvent Receiver level (inches)

TK-138 PH ADJUSTMENT CHART TO 5.5-6.0

1. Pounds 50% caustic to Add / 10,000 Lbs water

<u>TK - 138 PH</u>	<u>LB / 10,000 lbs Water</u>
2	80
3	30
4	15
5	2
6	0

Add via suction of P - 1 while TK - 138 is recirculating (suction valve 3/4 closed).
 Flush suction hose with one pail of water. Put TK-138 on full recirculation, agitator on,
 for 20 minutes. Re-measure PH, adjust further as needed.

2. Pounds 83% Acetic Acid to add / 10,000 lbs water

<u>TK - 138 PH</u>	<u>Lb / 10,000 lbs water</u>
14	720
13	72
12	8
11	5
10	4
9	3
8	2
7	1
6	0

Addition method same as 50% caustic described above.

STRIPPER CLEANING PROCEDURE

1. Pump contents of stripper column out to T-138 until column is MT. Shut off Pump. Close bottom of stripper column.
2. Pump 2 drums of water into the stripper, using stripper feed pump. Use bung drum and cradle to feed water to the pump.
3. Pump 300 lbs liquid caustic into the stripper column and then flush the pump and lines with three drums of water into the stripper column. **Wear rubber gloves and face shield when handling caustic.**
4. Shut off pump and leave bottom column closed.
5. Put steam on to stripper column at 800 lbs per hour and steam column until temperature at bottom reaches at least 95 degrees C (203 degrees F): then steam column for 4 hours longer. Watch column level and flow to receiver.
6. At end of the steaming period, pump the caustic wash water to T - 309.
7. When stripper column is MT after caustic cleaning, circulate waste water from T-138 through stripper back to T-138 for 2 hours. Run flow rate at 20 GPM.
8. At end of 2 hours, circulate pump contents of stripper column back to T-138. Adjust PH of T-138 water to 5.5 to 6.0 and start up stripper per normal operation.
9. With stripper running, circulate back to T-138 for 1 hour minimum. Recheck PH on T-138, adjust to 5.5 to 6.0 if needed.
10. Continue with stripper operation and water discharge if PH is ok (5.5 to 6.0) and column temperatures are at proper levels.

OPERATING INSTRUCTIONS FOR T- 67/ T- 66

1. Record levels in T-66 and T-67 every two hours in provided log book, while stripper is running; every shift while stripper is not running.
2. When T-67 is more than two-thirds full, transfer water layer only as follows:
 - a) Check level in T-66 to determine if there is room. If not, transfer water layer to T-138 using hoses. T-138 can be pumped to T-309 or T-311 - see Supervisor .
 - b) Using hoses or a fixed pipe line, transfer T-67 water layer (use sight glass) to T-66. Pump should stop when solvent layer is about to go below lowest level in sight glass (keep interface within sight). If automatic shut off does not work, shut down pump manually.
 - c) Emergency overflow is in 500 gallons to floor drain, or drum as necessary. If there are enough hose extensions, the T-138 pump may be reached as well.

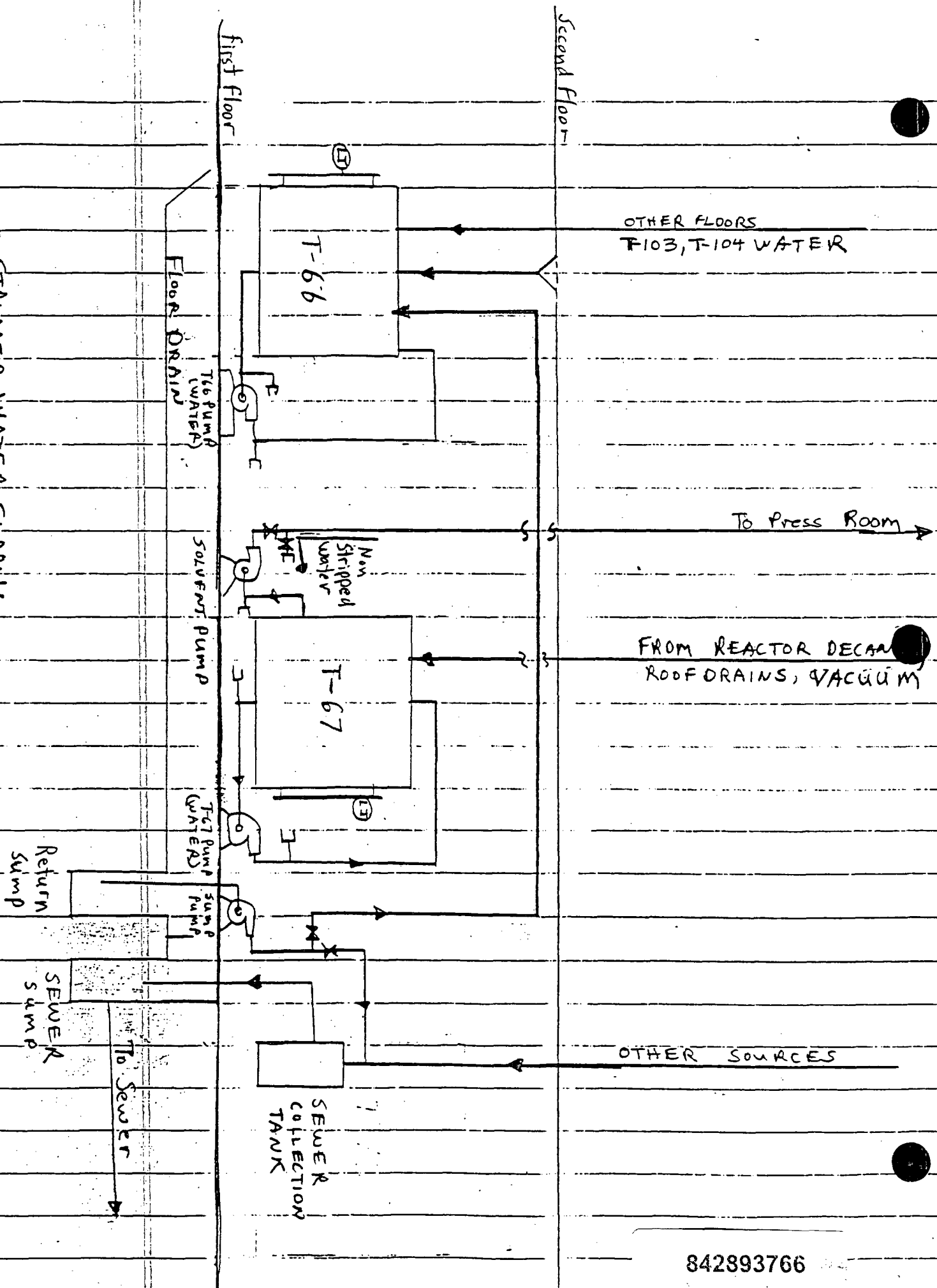
Note: T-67 is tied to the vacuum system and reactor decant tanks. T-67 can fill up within 12 hours. Level must be monitored every 2 to 4 hours, else reactors and vacuum system might have to be shut down.

3. When time to fill T-138 (50,000 - 80,000 lbs), empty via hoses in the following order:
 - T-66 (T-67 is emptied to T-66)
 - T/Ws from Albert Avenue.
 - Other drums of water, if exist
 - TK - 309 or 310, see Supervisor for levels in each tank
4. When stripper is down, remove solvent layers in T-66 and T-67 to closed - head drums. Mark as liquid hazardous waste - flammable (like solvent receiver waste drums). This should be done once per month. Remove drums to hazardous waste area on first floor, bldg # 32. Use solvent pump on T-67.
5. If OCPSF water (water that needs to be stripped) is in floor drains, pump return sump to T-66. Make sure valves are set to return to T-66, not sewer.
6. For sewer bypass,(water that does not need to be stripped): a hose will be hooked up to the floor drain, most likely from T-67 solvent pump hose connect, (gravity drain from press room- stainless line) In this case:
 - Confirm PH is 5-10.5, and LEL is negative, record in log book.

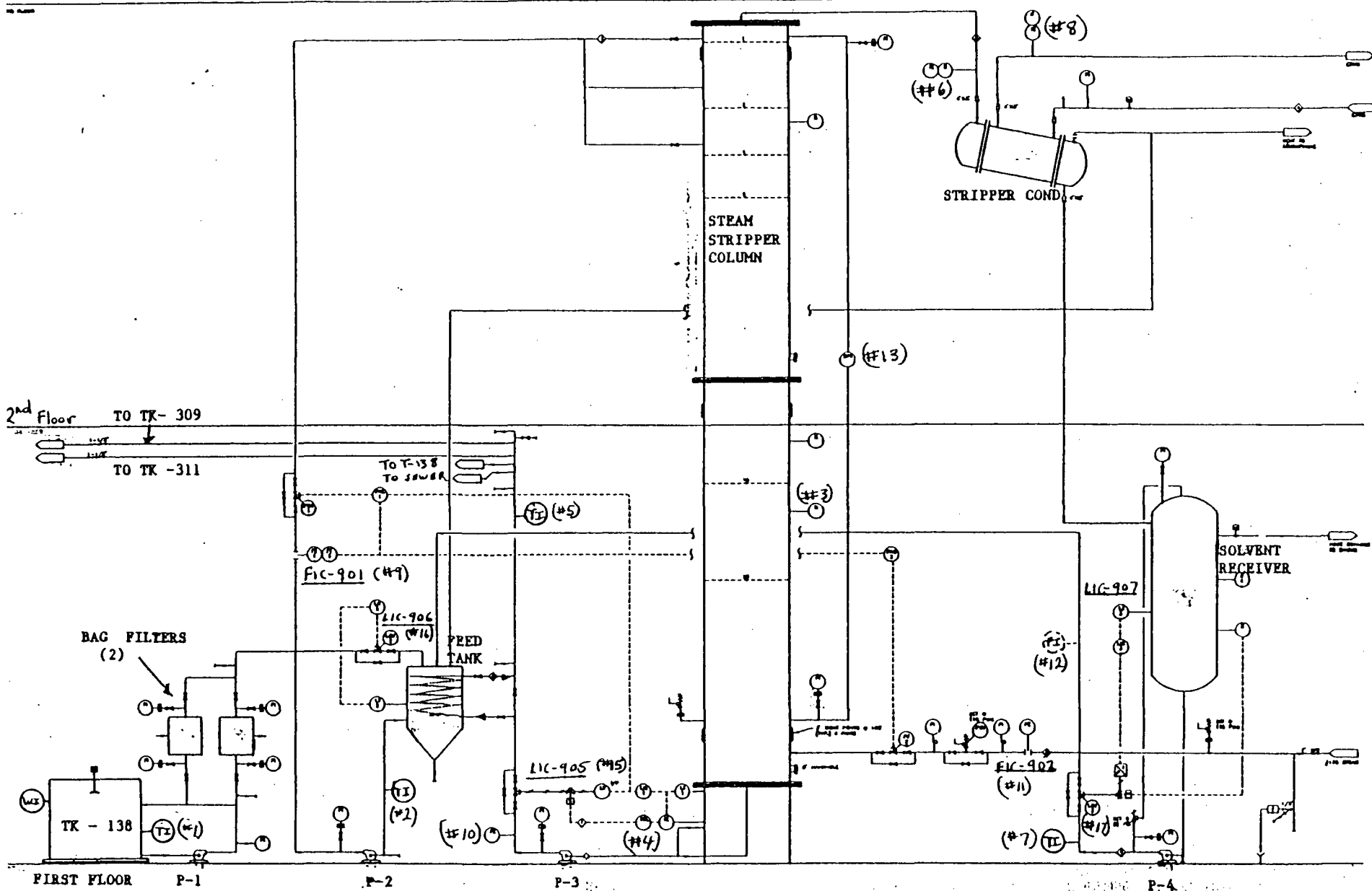
- Make sure all strippable water is out of floor drain. If necessary, flush drain to pit and pump flush to T-66.
- Set sump pump to sewer.
- Attach hose and confirm with Maintenance or Operators that connections on upper floors are correct and sound.
- Start flow with valve half open; monitor floor drain level so it does not overflow.

Note: Any floor water has to be stripped. Non-strippable water is usually kettle or tank rinses, or neutralized caustic cleaning solutions w/o solvent contamination.

SKETCH OF STRIPPER WATER SUPPLY



7/15/94
KRM



It is a condition of sale for this document that the purchaser shall not, without the written consent of the seller, reproduce or use the information contained herein for any purpose other than that for which it was originally prepared.

As shown on drawings
Designed by
Drawn by

NOT TO SCALE

DATE	REVISION



ROCH-HOLD CHEMICALS, INC.
COATING POLYMERS & RESINS DIVISION
NEWARK, NEW JERSEY

PROCESS AND INSTRUMENTATION DIVISION
DORRANUS AVENUE
P & ID

PRELIMINARY
NOT FOR
CONSTRUCTION
DATE: 6/20/74

REV. NO.
DATE
BY
JUN 1974
PID-1
R-0

842893767

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD

July 22, 1993

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 Wilson Avenue
Newark, NJ 07105
Attn.: Industrial Dept.

Dear Sirs:

Attached you will find a copy of a revised listing of calculated mass limits for our waste discharge to PVSC system. Our previously submitted limits did not include total review of 1991 discharge, nor did it allow for any future increases when the Doremus Avenue facility goes back on line.

Please review these revised limits, and if you need any additional information please contact me at (201) 589-3716 during business hours.

Sincerely yours,

Arthur E. Dieffenbach
Arthur E. Dieffenbach *'slm*
Plant Engineer

encl.

*REVISED
08/05/93*

*WOULD NOT ACCEPT
PROPOSED 50% INCREASE IF
FACILITY GOES BACK ON LINE.
CAN FILE FOR REVISION WHEN
WE GO BACK ON LINE IF NECESSARY*

(201) 589-3709
(201) 817-9173 (Facsimile)

842893768

7/12/93

MASS LIMITS CALCULATIONS

AVG FLOW = 12,139 GAL/D = 0.0459×10^9 GAL/D
 MAX FLOW = 15,607 GAL/D = 0.05904×10^9 GAL/D

MASS LIMITS

<u>PARAMETER</u>	<u>AVG</u>	<u>MAX</u>
		7.911
BENZENE	2.616	22.435
CARBON TETRACHLORIDE	6.518	22.435
CHLORO BENZENE	6.518	48.878
1,2,4 TRI CHL BENZENE	8.996	48.878
HEXACHLORO BENZENE	8.996	33.889
DICHLOROETHANE	8.262	3.483
1,1,1 TRI CHLOROETHANE	1.01	48.878
HEXACHLOROETHANE	8.996	3.483
1,1,1 DICHLOROETHANE	1.01	48.878
1,3 DICHLOROPROPYLENE	8.996	22.435
ETHYL BENZENE	6.518	10.037
METHYL CHLORIDE	1.652	17.417
METHYL CHLORIDE	5.049	22.435
HEXACHLOROBUTADIENE	6.518	377.97
NITROBENZENE	102.68	13.638
2-NITROPHENOL	2.984	34.007
4-NITROPHENOL	7.436	16.354
2,6 DINITRO-CRESOL	3.580	7.498
1,1,2 TRI CHLOROETHANE	1.468	17.417
CHLOROETHANE	5.049	19.188
CHLOROFORM	5.095	

842893769

PARAMETERS

Avg

Max

1,2 Dichlorobenzene	8.996	46.878
1,3 Dichlorobenzene	6.518	22.435
1,4 Dichlorobenzene	6.578	22.435
1,1, Dichloroethylene	1.01	3.542
1,2 Trans Dichloroethylene	1.148	3.897
1,2 Dichloropropane	8.996	46.878
Tetrachloroethylene	2.387	9.683
Toluene	1.285	4.369
Trichloroethylene	1.193	4.074
Vinyl Chloride	4.452	10.155
TOTAL CYANIDE	19.278	70.848
TOTAL LEAD	14.688	40.738
TOTAL ZINC	48.195	154.094

WASTE WATER STRIPPER - 1991

<u>MO</u>	TOTAL VOLUME GAL	MAX FLO GAL	Avg FLO GAL
JAN	102,375	9600	5850
FEB	102,375	9600	5850
MAR	102,375	9600	5850
APR	102,375	9600	5850
MAY	102,375	9600	5850
JUNE	102,375	9600	5850
JULY	127,484	9639	8499
AUG	94,188	10,188	7849
SEPT	176,177	10,803	8809
OCT	201,507	12,288	9596
NOV	98,441	9,964	5791
DEC	167,053	9546	7955

NOTE: JAN to JUNE AVERAGE FROM GHO REPORT.

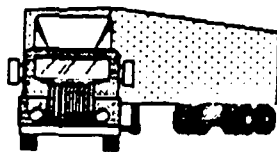
DISREGARD AVG JAN to JUNE THEN Avg MAX = 10,405

ASSUME 50% INCR = 15607 GAL/DAY MAX FLOW

$$\text{Avg FLO} = 8093 \times 50\% \text{ INC} = 12139 \text{ GAL/D}$$

ADDITIONAL FLOWS ARE ESTIMATED BASED UPON RESUMPTION OF PRODUCTION AT DOREMUS AVE FACILITY AND POSSIBLE PRODUCT MIX CHANGES.

SENT
8/05/93
aeg



Reichhold Chemicals
390 Doremus Avenue
Newark, N.J. 07105
Fax 201-491-0074
Shipping & Receiving Dept.

Date 8/05/93

To ANDY CALTIGIRONE

Location PASSAIC VALLEY SEWERAGE

Fax # 344-2951

From ART DIFFENBACH

Pages 3

Message:

08/05/93

PVSC

600 WILSON AVE

NEWARK NJ

ATTN ANDY CALTIGIRONE

RE: RECALCULATED MASS LIMITS BASED ON AVERAGE
 FLOW PREVIOUSLY REPORTED - 8,093 GAL/DAY.
 ALL LIMITS IN GRAMS.

PARAMETER	AVERAGE	MAXIMUM
BENZENE	1.739	4.087
CARBON TETRACHLORIDE	4.331	11.591
CHLOROBENZENE	4.331	11.591
2,4 TRICHLORO BENZENE	5.978	24.219
HEXACHLORO BENZENE	5.978	24.219
1,2 DICHLORO ETHANE	5.490	17.508
1,1,1 TRICHLOROETHANE	0.671	1.80
HEXACHLOROETHANE	5.978	24.219
1,1 DICHLORO ETHANE	0.671	1.80
1,3 DICHLORO PROPYLENE	5.978	24.219
ETHYL BENZENE	4.331	11.591
METHYLENE CHLORIDE	1.098	5.185
METHYL CHLORIDE	3.355	8.998
HEXACHLORO BUTADIENE	4.331	11.591
NITRO BENZENE	68.234	195.277
2-NITROPHENOL	1.983	7.046
4-NITROPHENOL	4.941	17.569
4,6-DINITRO-O-CRESOL	2.379	8.449
1,1,2-TRICHLOROETHANE	0.976	3.874

842893773

PARAMETER	AVERAGE	MAXIMUM	
CHLOROETHANE	3.355	8.998	
CHLOROFORM	3.386	9.913	
1,2-DICHLORO BENZENE	5.979	24.219	
1,3-DICHLORO BENZENE	4.331	11.591	
1,4-DICHLOROBENZENE	4.331	11.591	
1,1-DICHLOROETHYLENE	0.671	1.830	
1,2-TRANS DICHLOROETHYLENE	0.763	2.013	
1,2-DICHLOROPROPANE	5.979	24.219	
TETRACHLOROETHYLENE	1.586	5.002	
TOLUENE	0.854	2.257	
TRICHLOROETHYLENE	0.793	2.105	
VINYL CHLORIDE	2.959	5.246	
TOTAL CYANIDE	12.811	36.603	
TOTAL LEAD	9.761	21.046	
TOTAL ZINC	32.028	79.612	

PH CHART

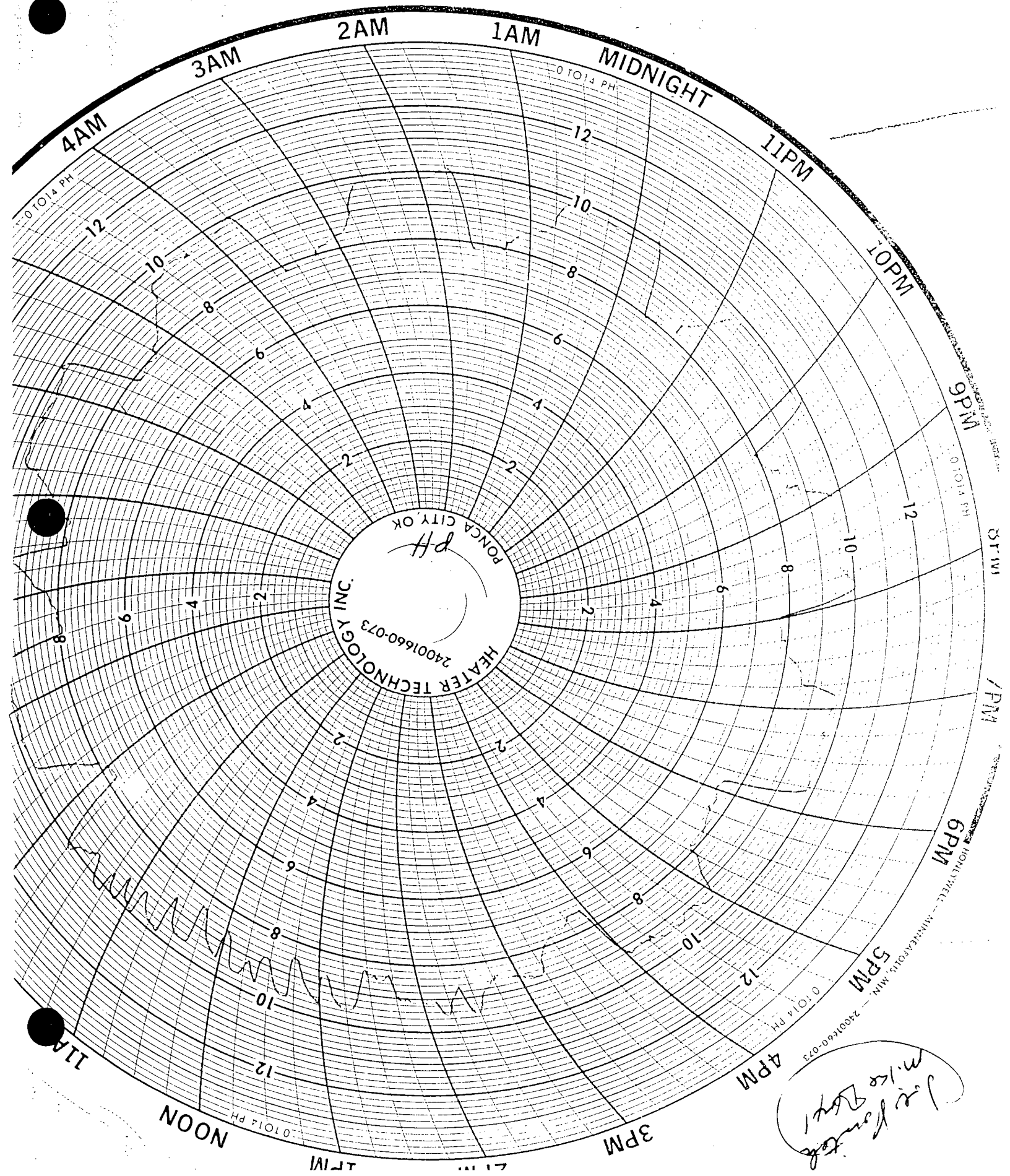
Joe Bontek
Mike Bati

Date	Time	pH	Person Notified	SOURCE of EFFLUENT Corrective Action.
11-15-90	8 00	8.4		
	9 00	9.7		
	10 00	7.8		
	11 00	9.9		
	12 00	8.7		
	13 00	9.8		
	14 00	9.1		
	15 00	8.6		
	16 00	9.1		
	17 00	9.3		
	18 00	7.4		
	19 00	9.7		
	20 00	7.7		
	21 00	9.7		
	22 00	9.8		
	23 00	9.1		
	24 00	9.8		
	1 00	8.7		
	2 00	9.8		
	3 00	8.4		
	4 00	9.8		
	5 00	8.6		
	6 00	9.7		
	7 00	8.7		
11-16-90				

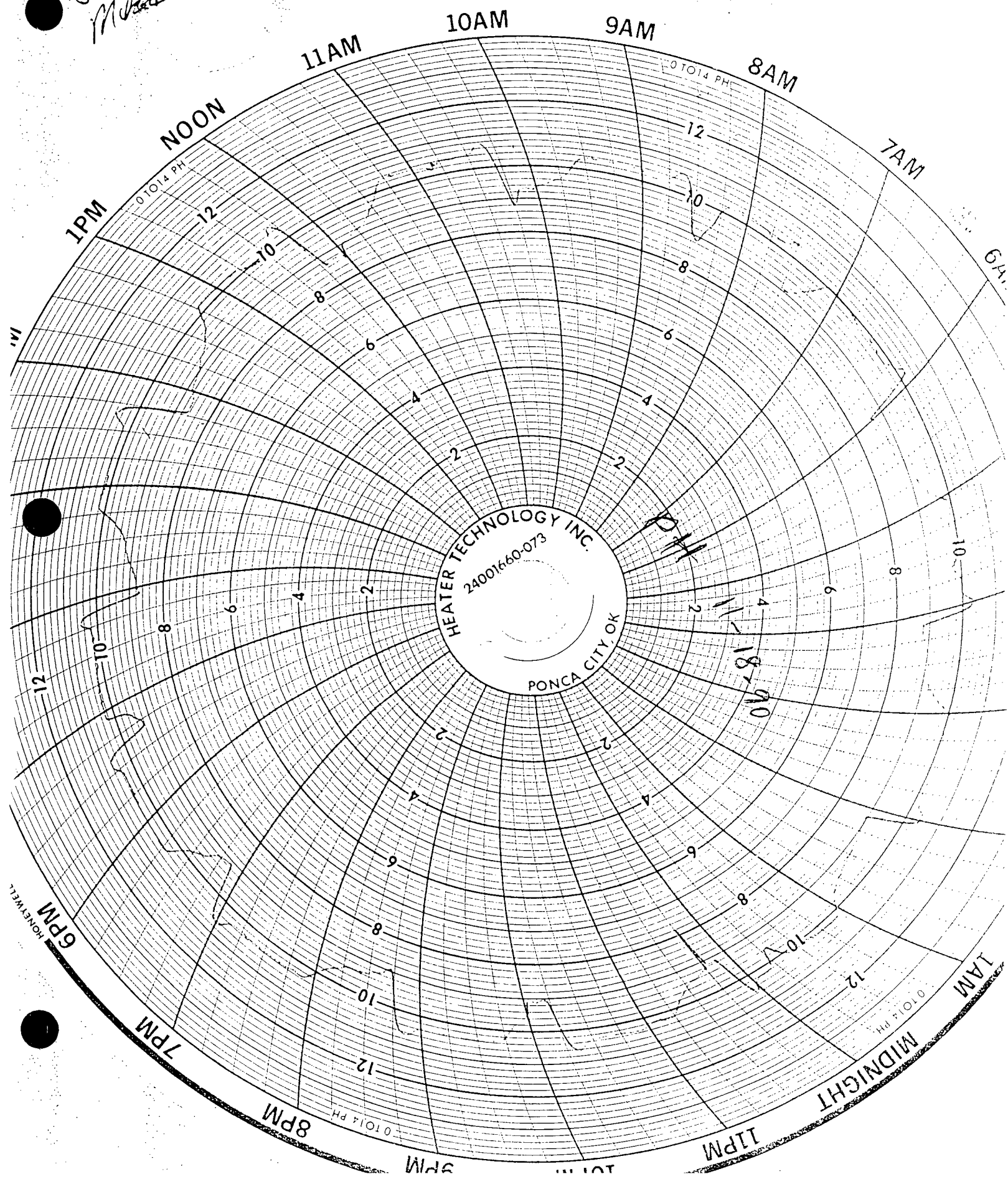
John Rankin 993-8610

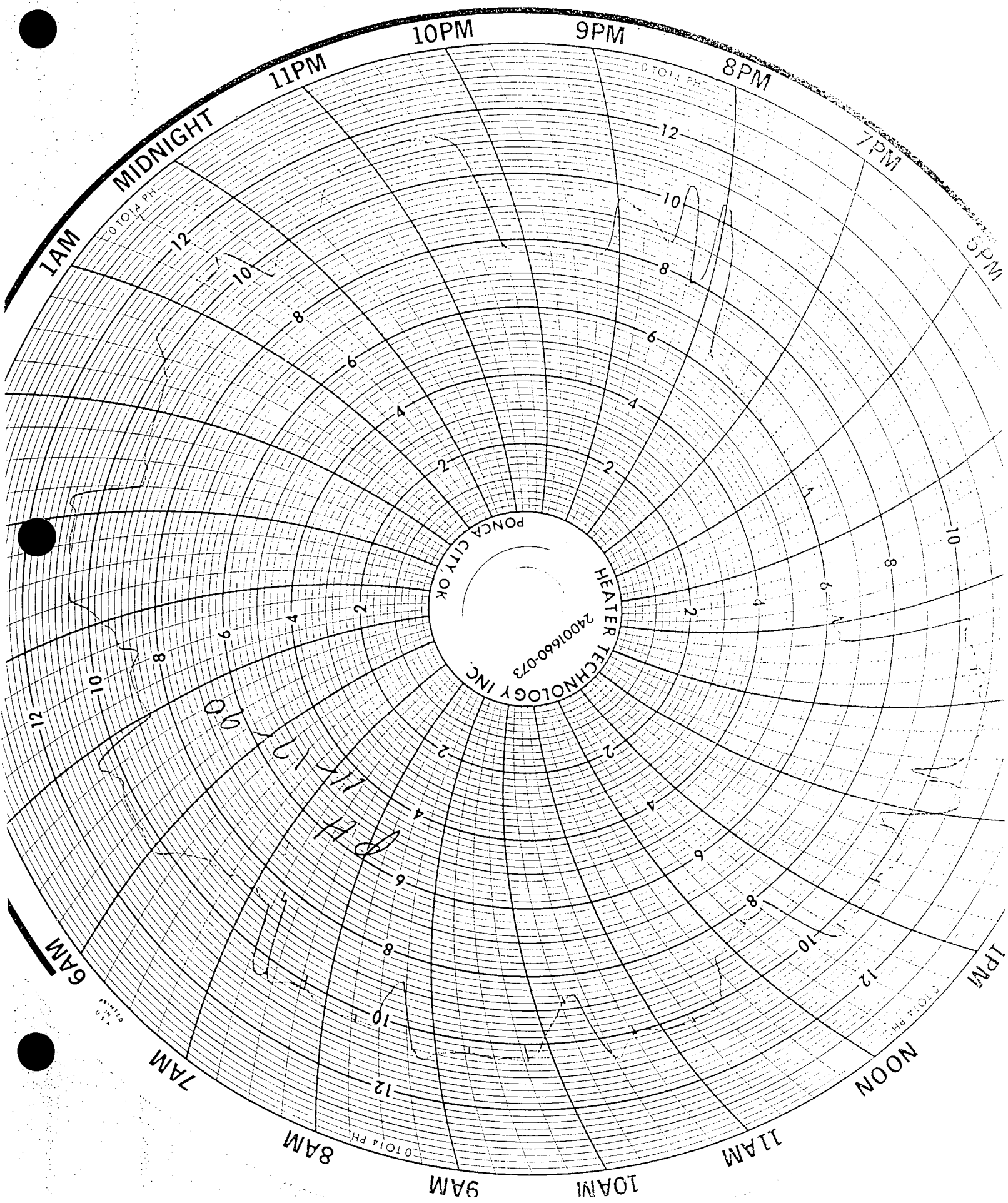
NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 minutes

842893776

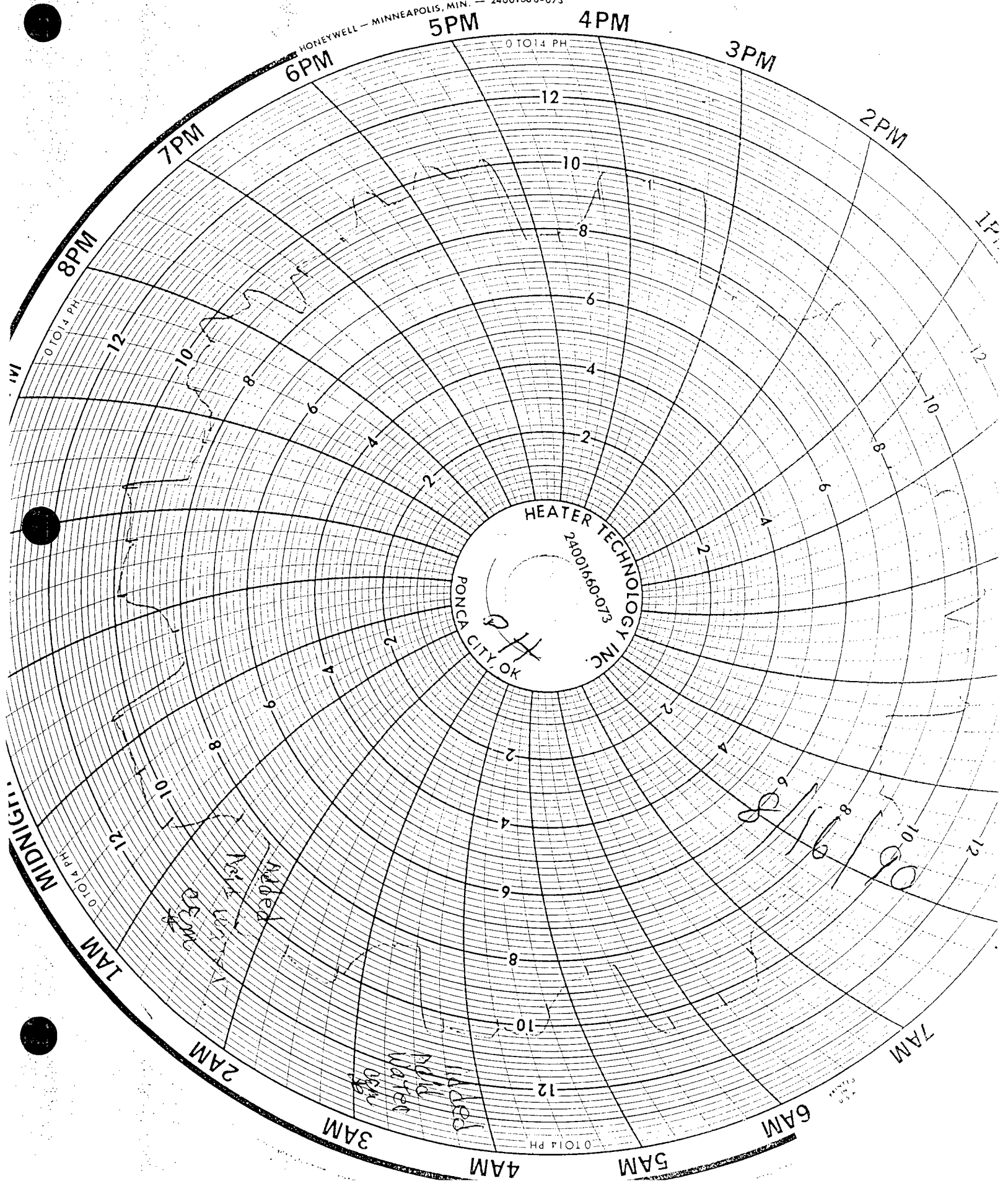


Joe Pomeroy
M. B. Pomeroy





HONEYWELL - MINNEAPOLIS, MIN. — 2400166 0-073
5PM
0 TO 14 PH



HEATER TECHNOLOGY INC.
2400660-037 CM1 OK
PONCA CITY, OK

1PM 2PM 3PM 4PM 5PM 6PM 7PM 8PM

2 4 6 8 10 12

pH CHART

Date	Time	pH	Person Notified	SOURCE of EFFLUENT Corrective Action
1-18-90	8 00	10.3		
	9 00	10.3		
	10 00	9.4		
	11 00	10.3		
	12 00	8.7		
	13 00	10.2		
	14 00	8.8		
	15 00	10.2		
	16 00	8.8		
	17 00	10.3		
	18 00	10.4		
	19 00	10.6	P.H. 10.6	NOTIFY HATTY
	20 00	10.1		
	21 00	10.4		
	22 00	9.5	10:15 P.H. 10.6	NOTIFY Charles
	23 00	10.3	11:40 P 10.6	" "
	24 00	10.3		
11-19-90	1 00	10.0		
	2 00	10.4		
	3 00	10.0		
	4 00	10.3		
	5 00	9.8		
	6 00	8.7		
	7 00	10.0		

John Rankin 993-8610

NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 minutes

PH CHART

842893782

Date	Time	pH	Person Notified	SOURCE OF EFFLUENT Corrective Action
11-17-90	8:00	10.4		
	9:00	10.6		
	10:00	9.8		
	11:00	10.2		
	12:00	8.6		
	13:00	10.4		
	14:00	10.8	Told H.K.	"Tell Ed. Smith"
	15:00	11.0	Told H.K. / Ed Smith	Source is unknown
	16:00	6.1		
	17:00	6.0		
	18:00	6.1		
	19:00	6.1		
	20:00	10.5		
	21:00	9.5		
	22:00	7.7	10:20 P# @ 11. Told SR	Source is unknown
	23:00	10.3		
	24:00	10		
11-18-90	1:00	10.6		
	2:00	8.4		
	3:00	10.7		
	4:00	9.6		
	5:00	8.6		
	6:00	10.4		
	7:00	8.8		

John Rankin 993-8610

NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 MINUTES.

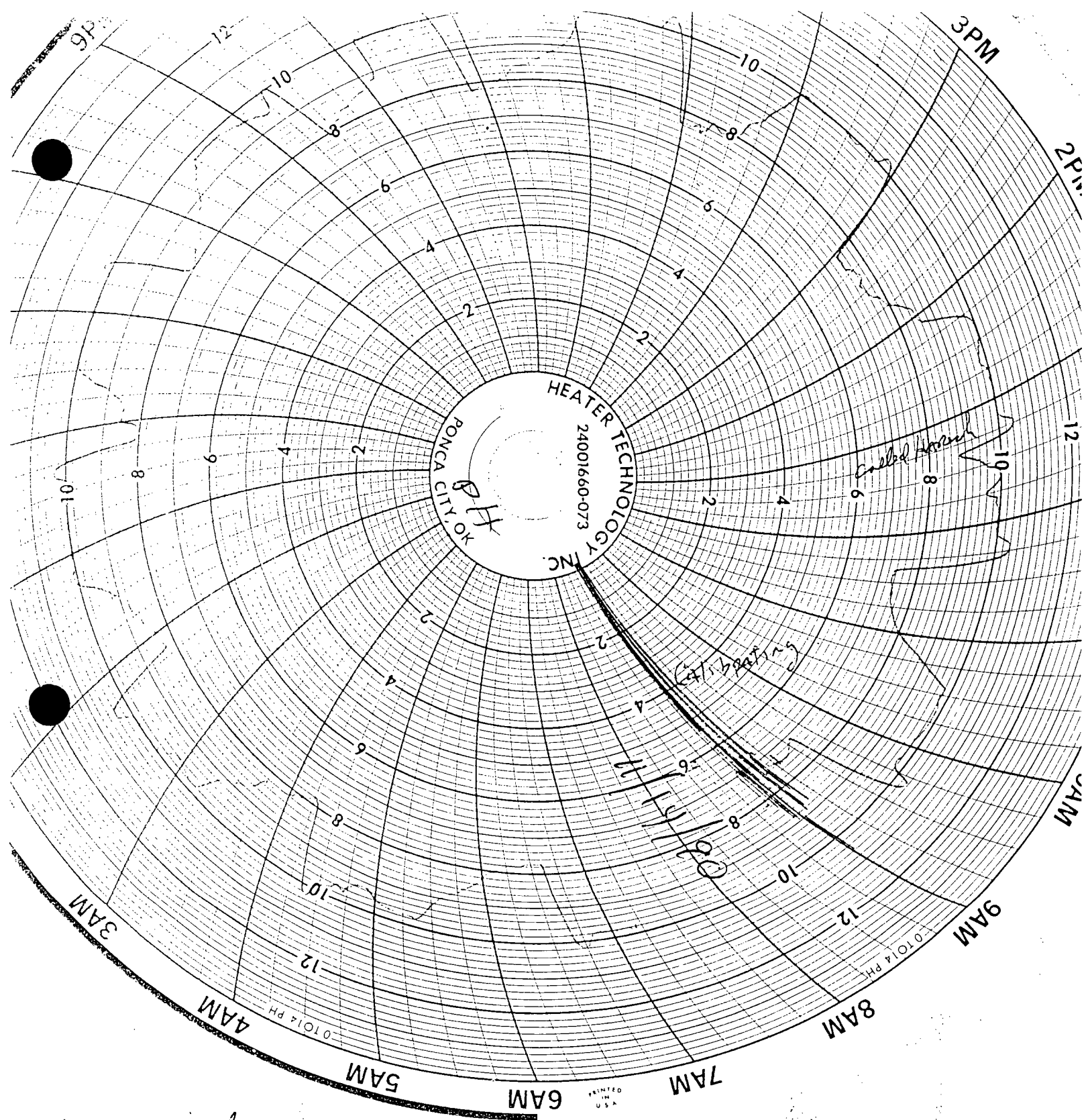
PH CHART

842893783

Date	Time	pH	Person Notified	SOURCE OF EFFLUENT Corrective Action
11-16-90	8:00	8.7		
	9:00	8.4		
	10:00	9.6		
	11:00	9.8		
	12:00	8.5		
	13:00	9.7		
	14:00	8.3		
	15:00	7.6		
	16:00	9.9		
	17:00	7.8		
	18:00	9.6		
	19:00	9.2		
	20:00	9.6		
	21:00	8.3		
	22:00	9.7		
	23:00	8.6		
	24:00	10.4		
11-17-90	1:00	9.4		
	2:00	10.5		
	3:00	7.0		
	4:00	10.5		
	5:00	8.8		
	6:00	10.4		
	7:00	8.6		

John Rankin 993-8610

NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 MINUTES



Joe Pointek
Mike Daxi

842893784

pH CHART

Date	Time	pH	Person Notified	SOURCE OF EFFLUENT CORRECTIVE ACTION
11/14/90	8:00	6.2	Calibrating	
	9:00		"	
	10:00	9.8		
	11:00	8.0		
	12:00	10.0	10.5 @ 12:25 called Harold	
	13:00	10.0		
	14:00	8.5		
	15:00	9.0		
	16:00	10.0		
	17:00	7.7		
	18:00	9.7		
	19:00	7.9		
	20:00	8.7		
	21:00	9.6		
	22:00	8.6		
	23:00	10.0		
	24:00	8.5		
11-15-90	1:00	10.0		
	2:00	8.4		
	3:00	9.7		
	4:00	8.3		
	5:00	9.5		
	6:00	8.3		
	7:00	9.8		

John Rankin 993-8610

NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 minutes.

HEATER TECHNOLOGY INC.
24001460-073

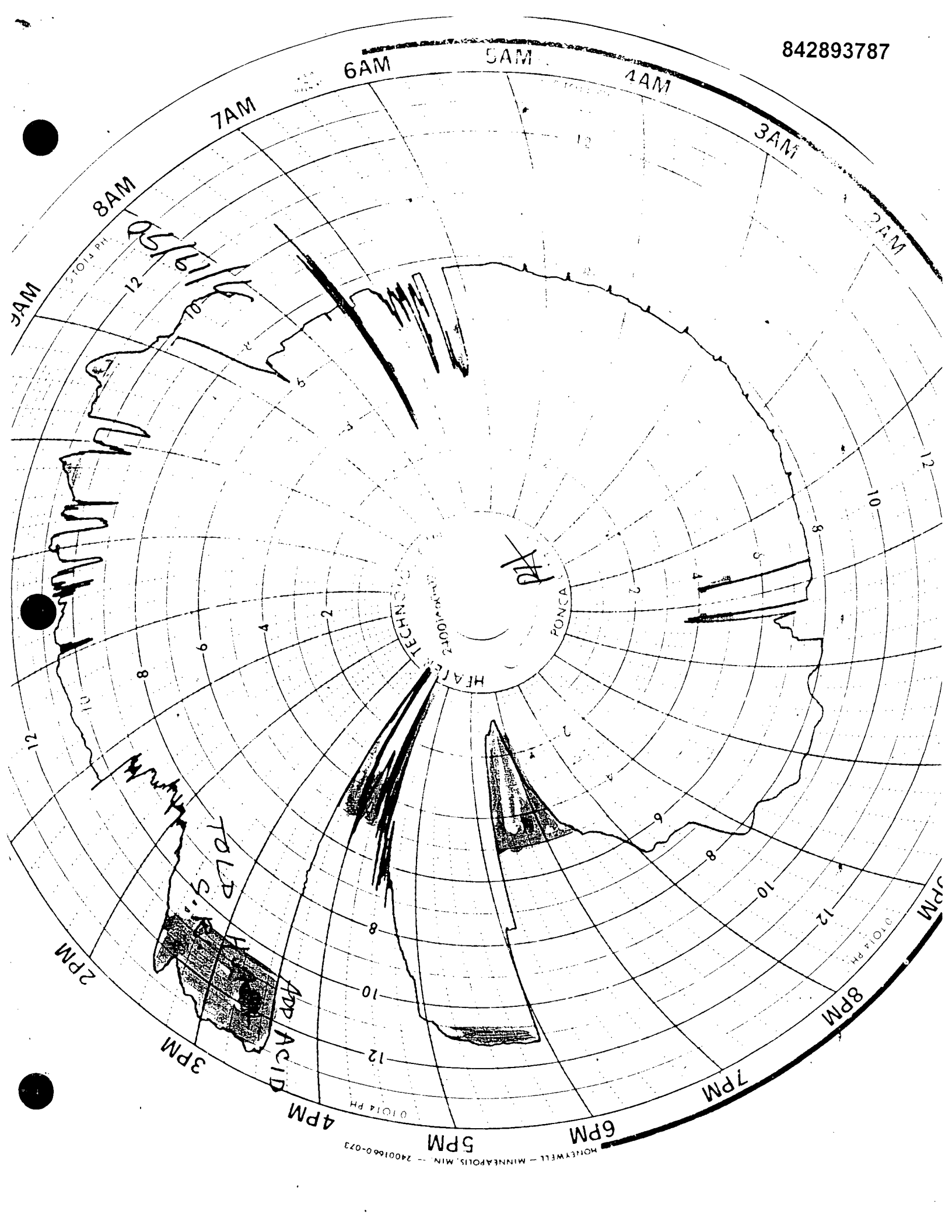
PONCA CITY, OK

11-14-91

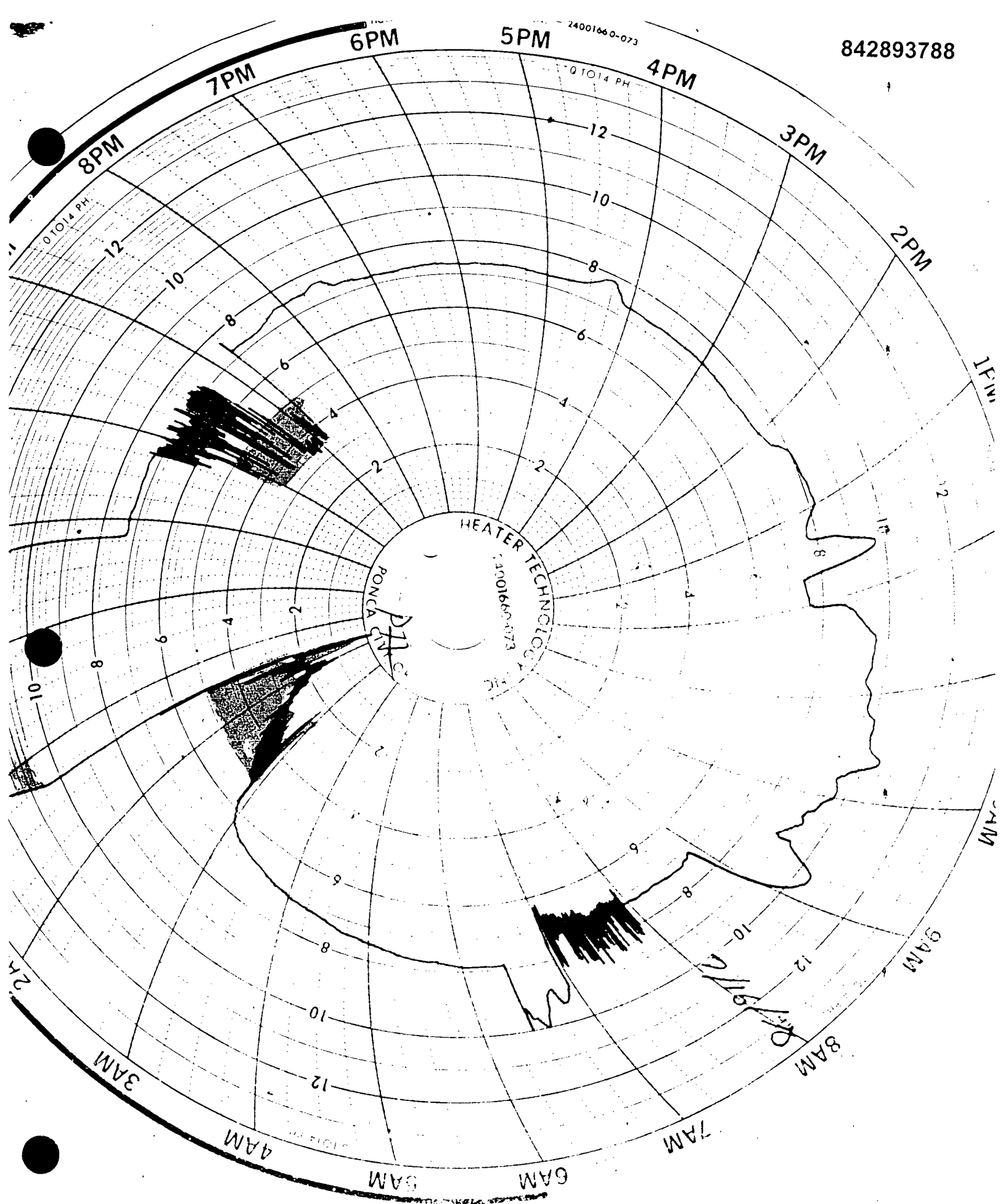
Gordon B. Cox

Garrett Box

2 PM



24001660-073



J. Runkin

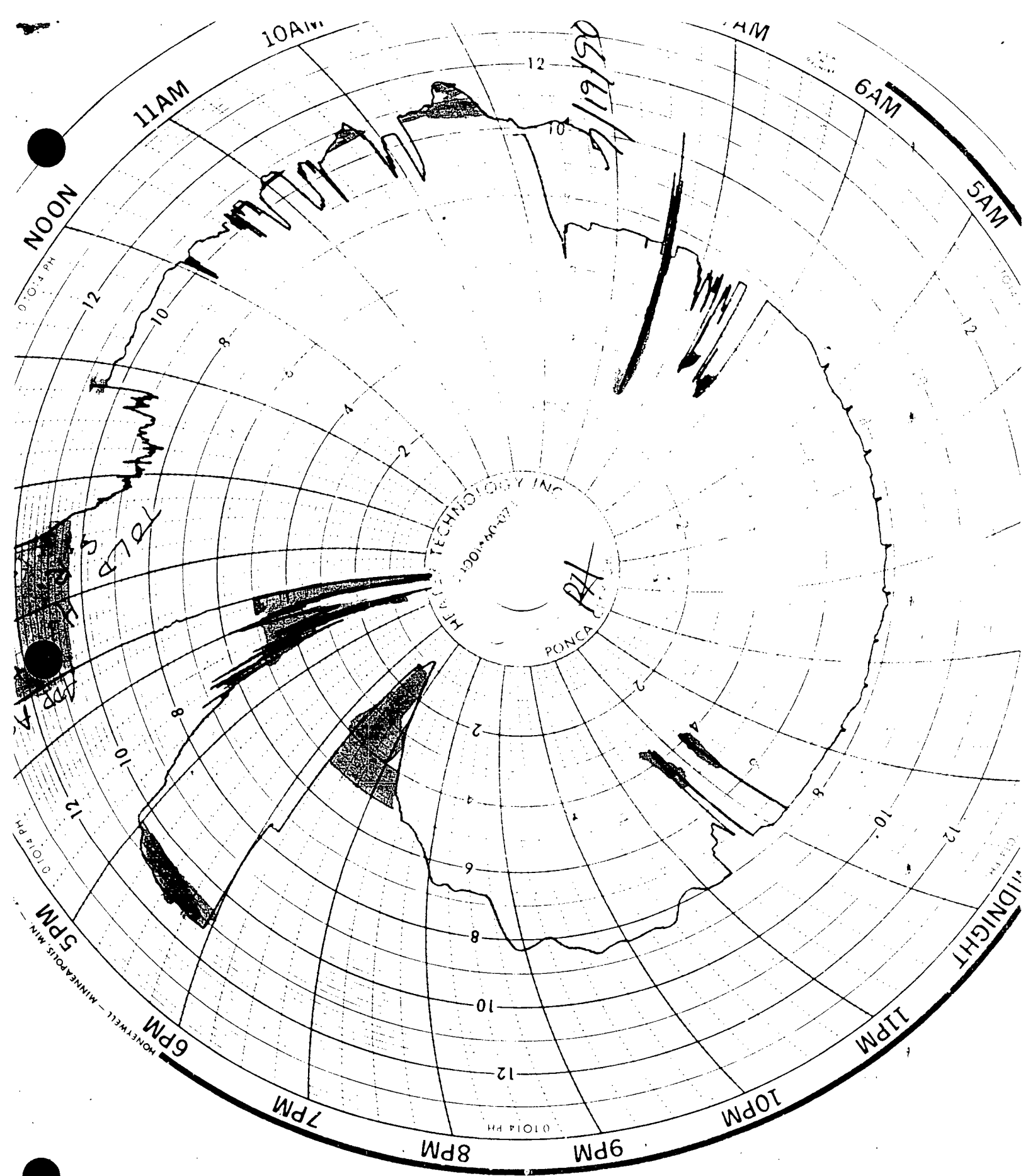


pH CHART

Date	Time	pH	Person Notified	SOURCE OF EFFLUENT Corrective Action
	8:00	8.2		
	9:00	7.8		
	10:00	7.6		
	11:00	8.6		
	12:00	8.6		
	13:00	8.6	12:30 notified Tom Jensen	
	14:00	12.8		
	15:00	12.6		
	16:00	12.3		
	17:00	8.0	17:30 Dis PH Adjusting SR	
	18:00	0.2		
	19:00	4.4	S.R	
	20:00	5.8		
	21:00	6.0		
	22:00	6.5		
	23:00	8.8		
	24:00	9.0		
	1:00	9.0		
	2:00	8.8		
	3:00	8.6		
	4:00	7.4		
	5:00	9.2		
	6:00	8.2		
	7:00	8.5		

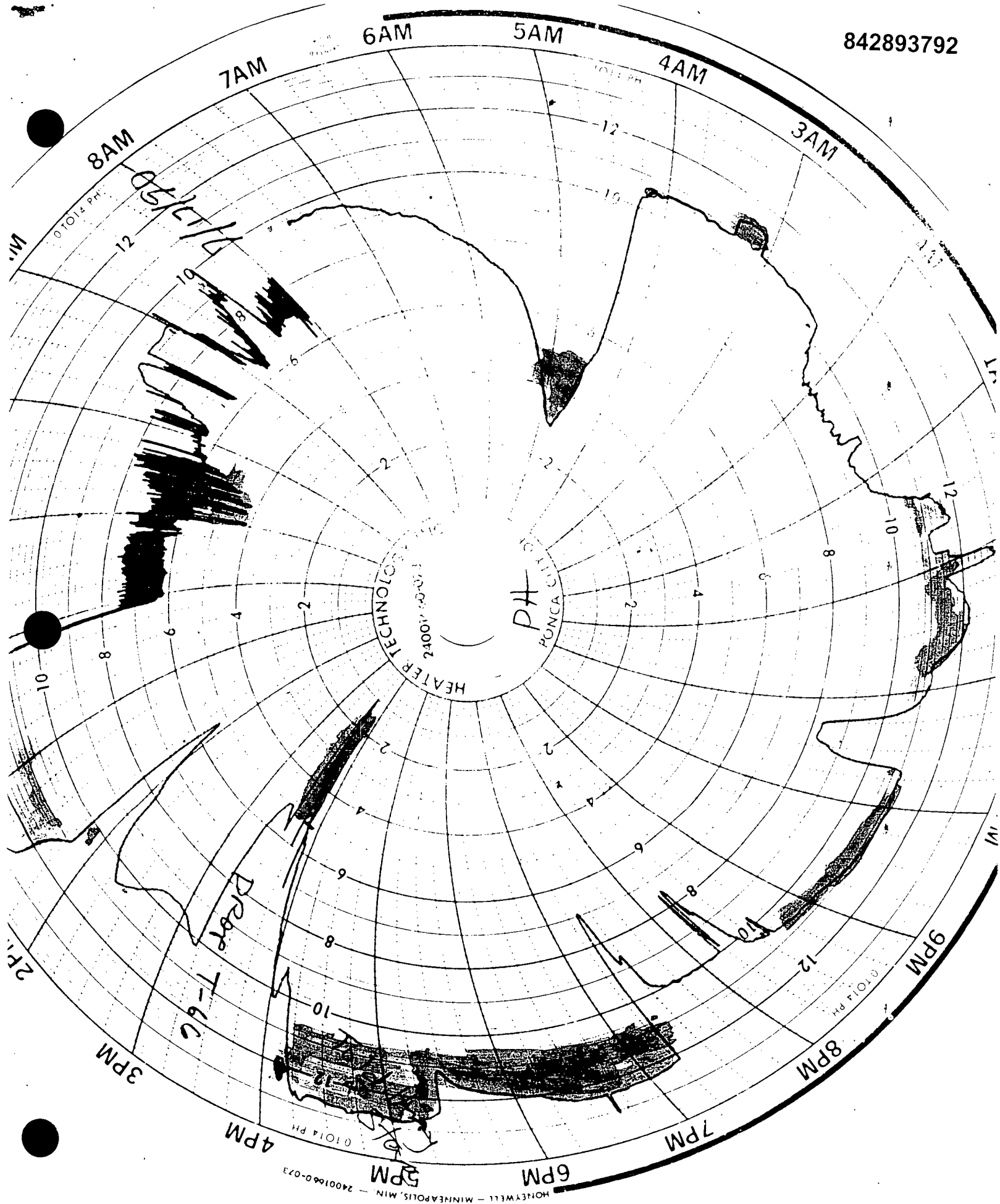
John Rankin 993-8610

NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 MINUTES

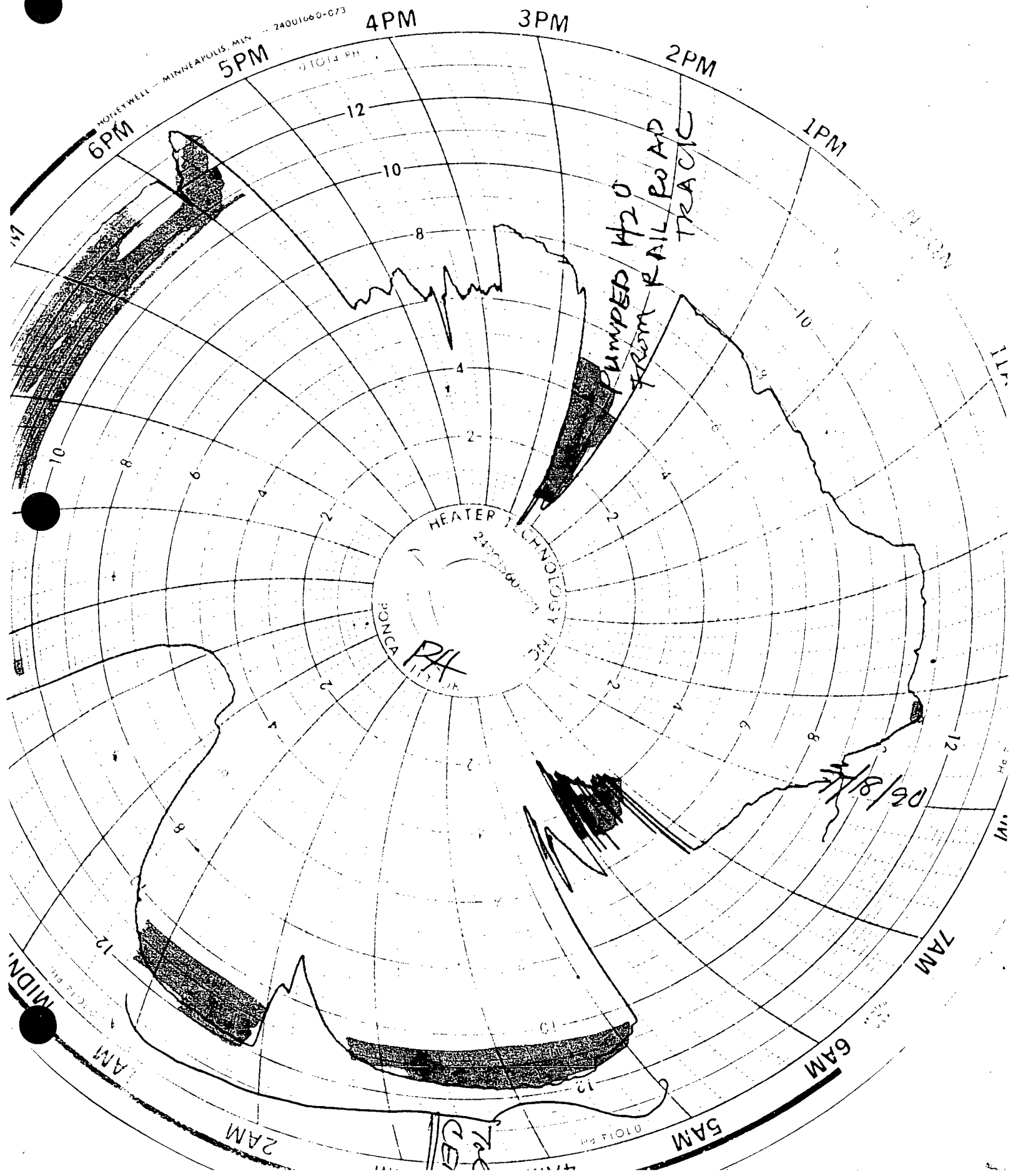


842893791

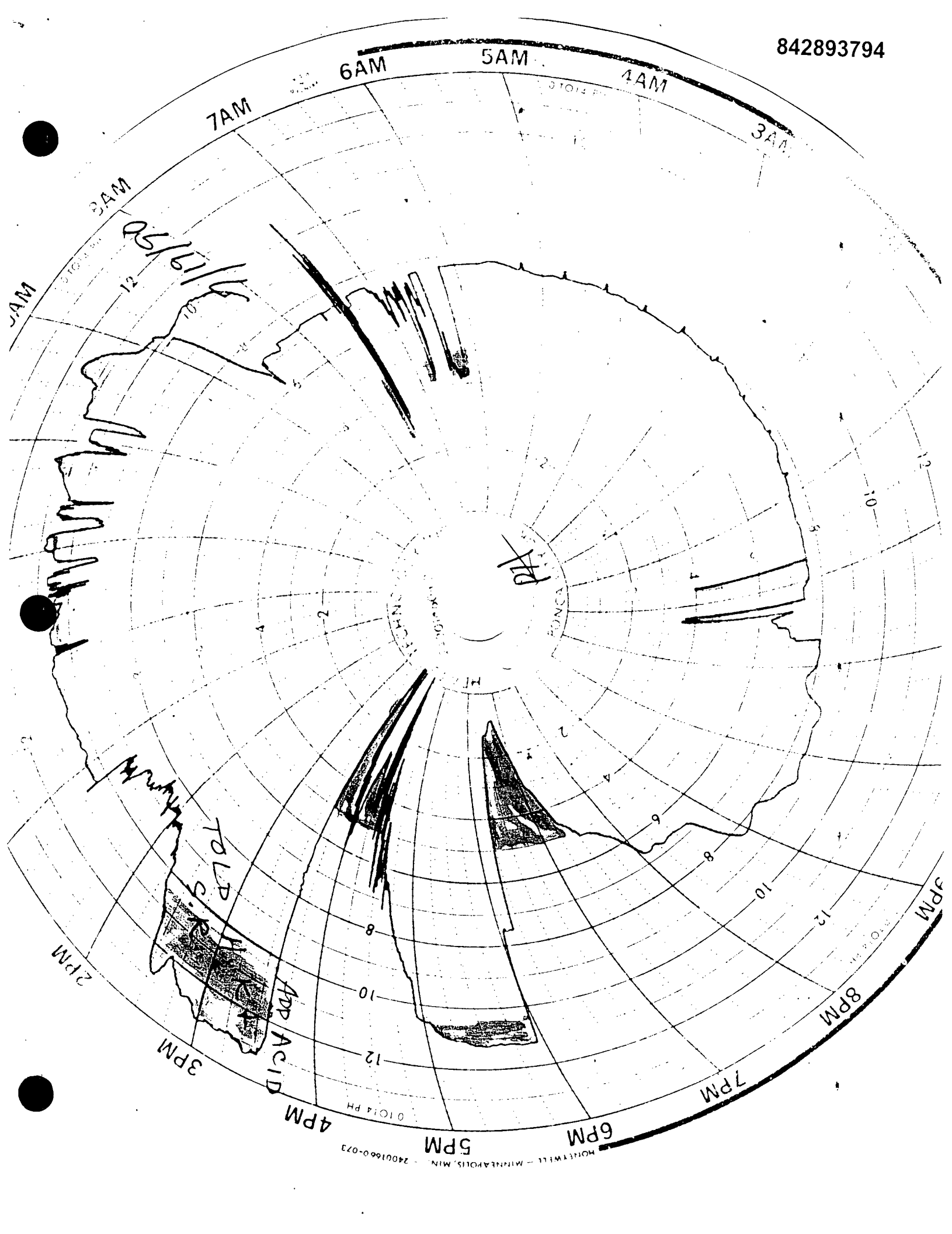
842893792



HONEYWELL - MINNEAPOLIS, MIN. - 2400166-0-073



MONTEWELL - MINNEAPOLIS, MINN. - 24001660-073



842893795

7AM

6AM

5AM

4AM

10PM

9PM

8PM

7PM

6PM

5PM

4PM

3PM

2AM

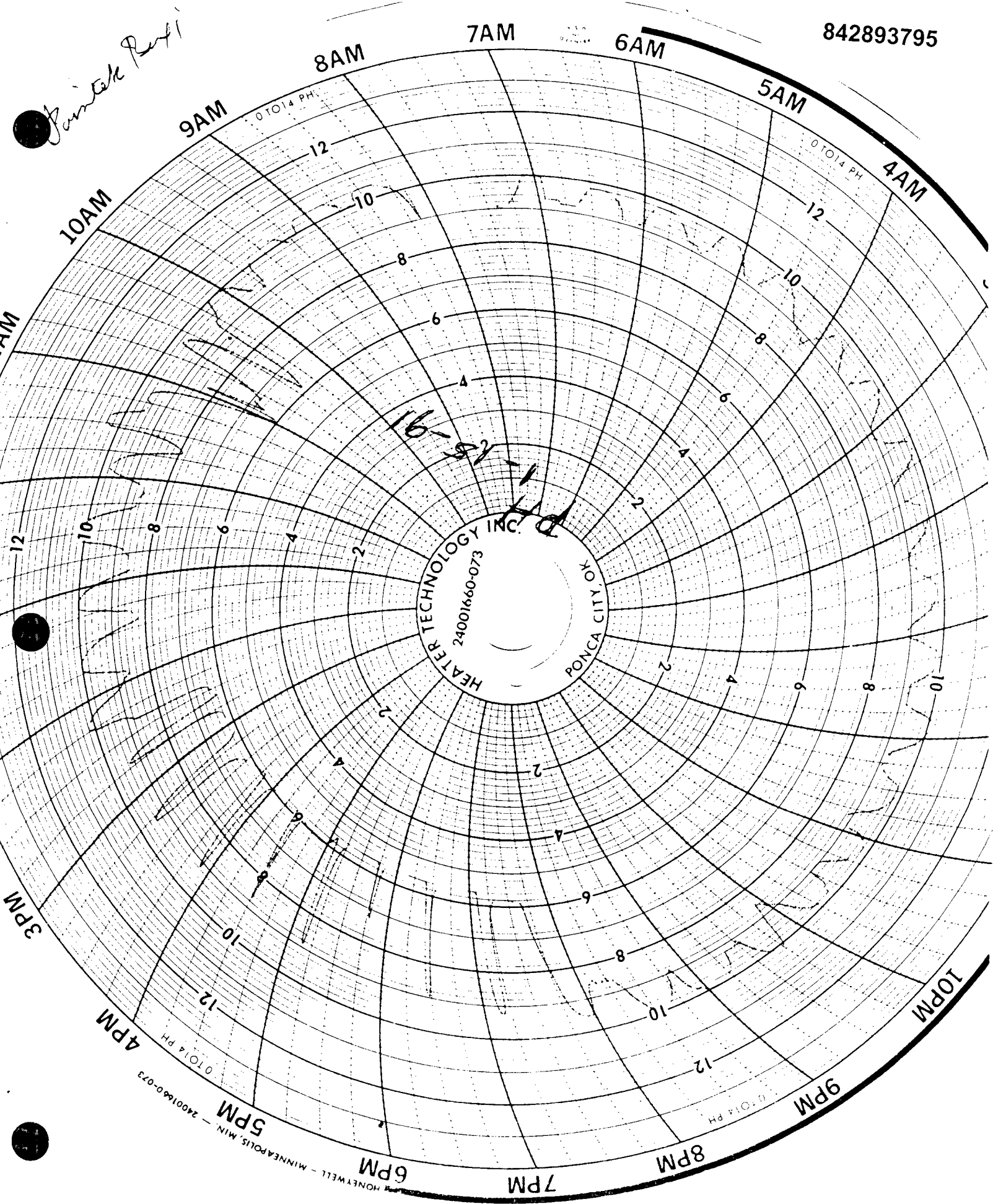
10AM

9AM

8AM

Painted Perf

HEATER TECHNOLOGY INC.
24001660-073
PONCA CITY, OK



7/19/90

Time	PH	
2400	5.4	
0100	11.6	} TOLD CEM
0200	11.0	
0300	11.6	
0400	11.8	
0500	11.6	
0600	2.2	
0700	7.2	
0800	9.5	
0900	10.3	
1000	10.4	
1100	10.7	
1200	10.6	
1300	10.4	
1400	9.0	
1500	13	
1600	5.8	
1700	10.5	
1800	10.0	
1900	2.2	
2000	6.4	
2100	8.3	
2200	8.4	
2300	8.0	
2400		

@ 1415 PH GOING UP. TOLD H.K. + S.R.
WILL ADD ACID TO BRING IT DOWN.

Steve adding Acid
adding acid

7/13/90

TIME	PH	PERSON NOTIFIED	SOURCE OF AFFLUENT OR CORRECTIVE ACTION TAKEN
2400	5.6		
0100	6.0		
0200	6.0		
0300	6.2		
0400	6.8		
0500	6.6		
0600	6.6		
0700	6.8		
0800	6.7		
0900	5.4		
1000	6.7		
1100	6.3		
1200	6.3		
1300	7.0		
1400	7.0.		
1500	7.0		
1600	7.3		
1700	7.2		
1800	7.0		
1900	7.1		
2000	6.8		
2100	7.0		
2200	7.2		
2300	7.4		
?			

842893797

7/16/90

TIME	PH
2400	7.2
0100	7.2
0200	7.2
0300	7.2
0400	7.4
0500	7.4
0600	7.4
0700	7.2
0800	7.3
0900	9.5
1000	9.7
1100	9.7
1200	7.7
1300	8.1
1400	7.4
1500	7.0
1600	7.3
1700	7.3
1800	7.3
1900	7.2
2000	7.4
2100	4.3
2200	7.3
2300	7.2

Told Steve

11:15 Told cem. PH @ 12.8

ATE 7/17/90

TIME	pH	
7400	12.8	} TOLD LGM ADDED ACID & H2O TO SEWER
1000	14.1	
1200	1.2	
1300	6.4	
1400	7.2	
1500	7.4	
1600	7.8	
1700	6.4	
1800	8.4	
1900	9.3	
1000	6.6	
1100	7.6	
1200	7.6	@ 1206 pH GOING ALL THE WAY UP TOLD H.K. ADDED ACID TO PIT & FLUSH W/ WATER
1300	14.0	
1400	7.0	
1500	7.6	
1600	10.2	
1700	12.7	> Told Supervisors. Harry/Steve
1800	11.9	
1900	12.4	
2000	10.0	
2100	10.1	// Told Steve Will drop T-66 with 7.0 pH
2200	10.1	
2300	11.1	

1/18/90

TIME	P.H.
2900	12.14
3100	9.4
1200	9.0
1300	10.6
1400	10.6
1500	3.8
1600	7.8
1700	9.6
1800	9.5
1900	10.4
1000	10.5
1100	8.3
1200	7.9
1300	8.0
1400	0.6
1500	7.6
1600	6.2
1700	6.8
1800	12.0
1900	12.7
2000	12.8
2100	13.0
2200	12.6
2300	4.8

TOLD CEM.
WILL ADD ACID
& H2O DOWN
THE SEWER

Told Steve, dropping T-66
Steve is working on it.

dropped more of T-66

7/19/90

TIME PH
2400 5.4

0100 11.6

0200 11.0

0300 11.6

0400 11.8

0500 11.6

0600 2.2

0700 7.2

0800 9.5

0900 10.3

1000 10.4

1100 10.7

1200 10.6

1300 10.4

1400 9.0

1500 13

1600 5.8

1700 10.5

1800 10.0

1900 2.2

2000 6.4

2100 8.3

2200 8.4

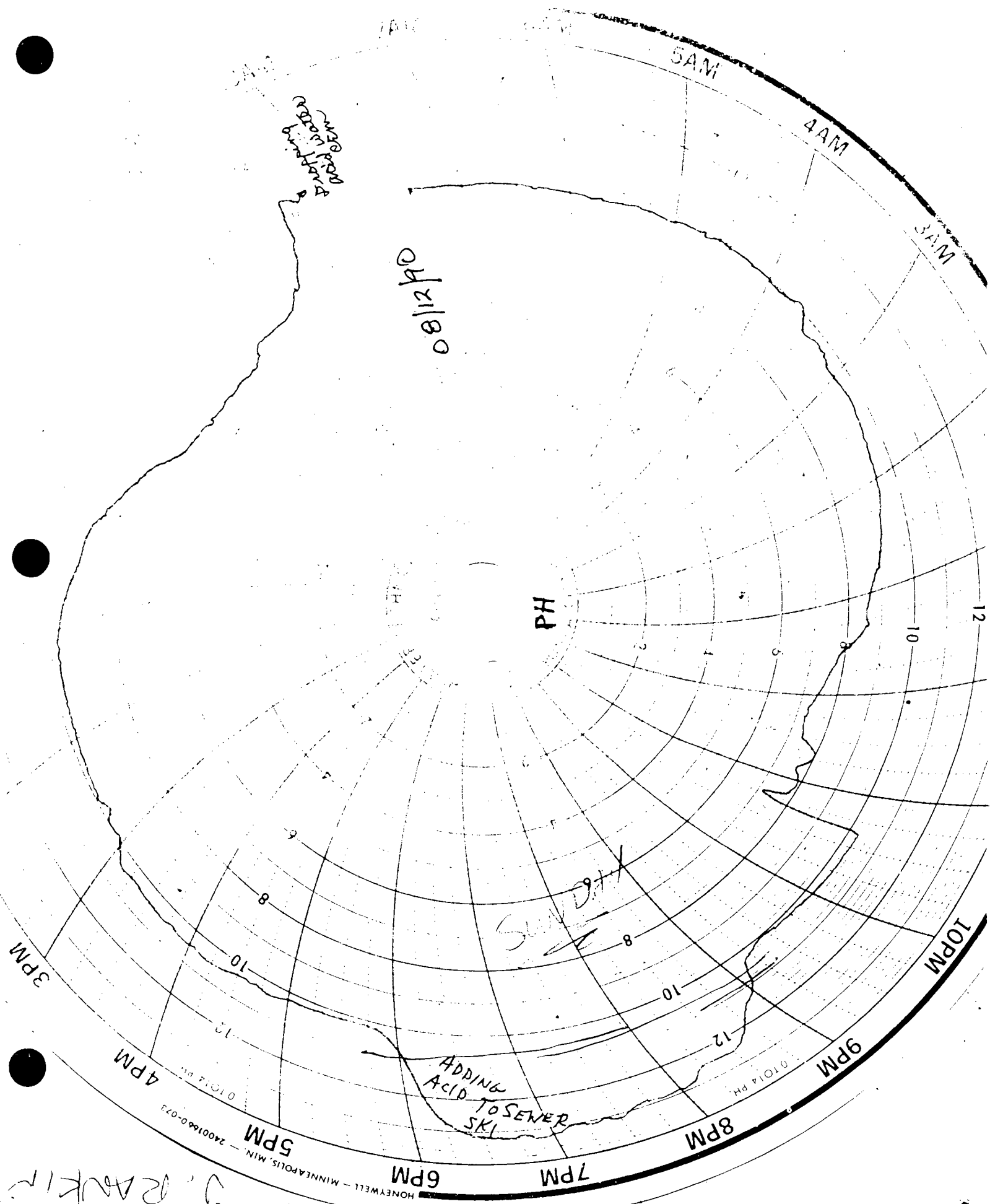
2300 8.0

2400

TOLD CEM

@ 1415 PH GOING UP. TOLD H.K. + S.R.
WILL ADD ACID TO BRING IT DOWN.

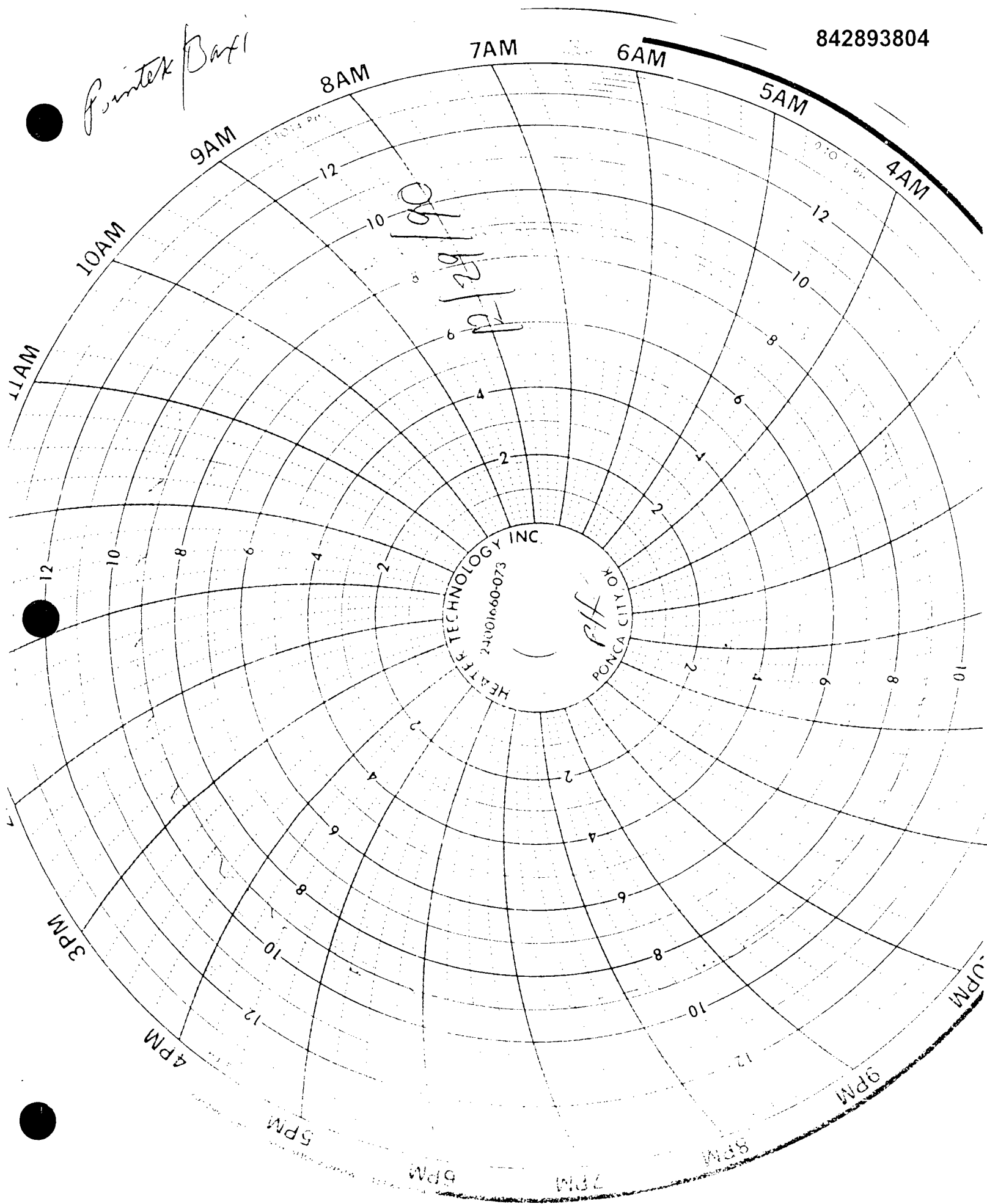
Steve adding Acid
adding acid



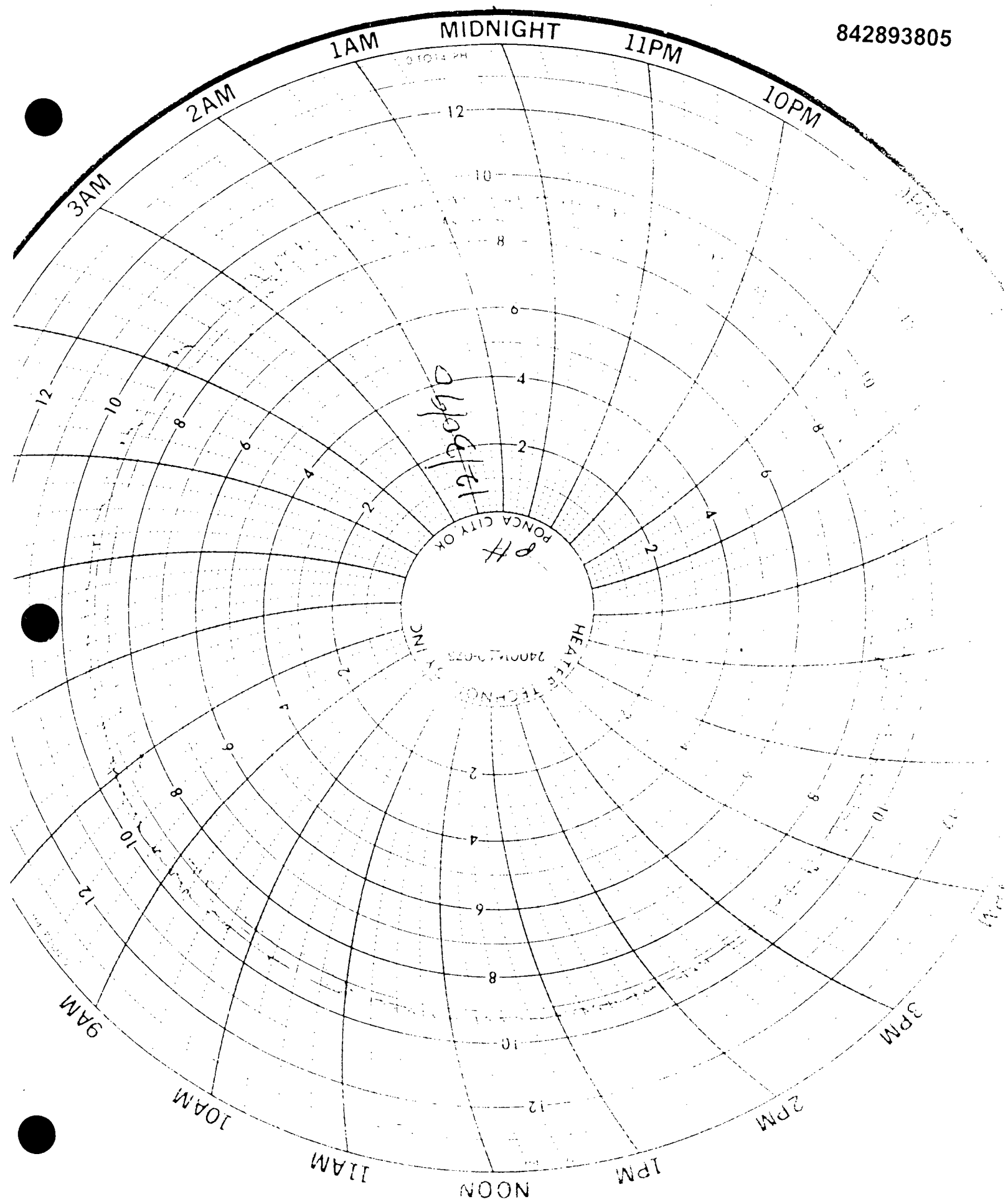
SAMPLE source	12/20/90 3:30 PM OUT	12/20/90 12:45 PM OUT	12/20/90 12:45 PM IN				
chloroform	6952.3 ppb	2389.7 ppb	61,264.4 ppb				
m-xylene	0	0	0				
o-xylene	10,576.9 ppb	1750.8 ppb	49,235.1 ppb				
p-xylene	711.4 ppb	348.9 ppb	472,352.4 ppb				
m-xylene	1346.7 ppb	854.5 ppb	122,140.9 ppb				
p-xylene	1764.4 ppb	384.4 ppb	337,107.1 ppb				
aromatics							
OD (ppm)	mg/lit x F	---	---				
	652 x 100	381 x 100	90 x 1000				
	= 65,200 mg/lit	= 38,100 mg/lit	= 90,000 mg/lit				

842893804

Printek Baxi

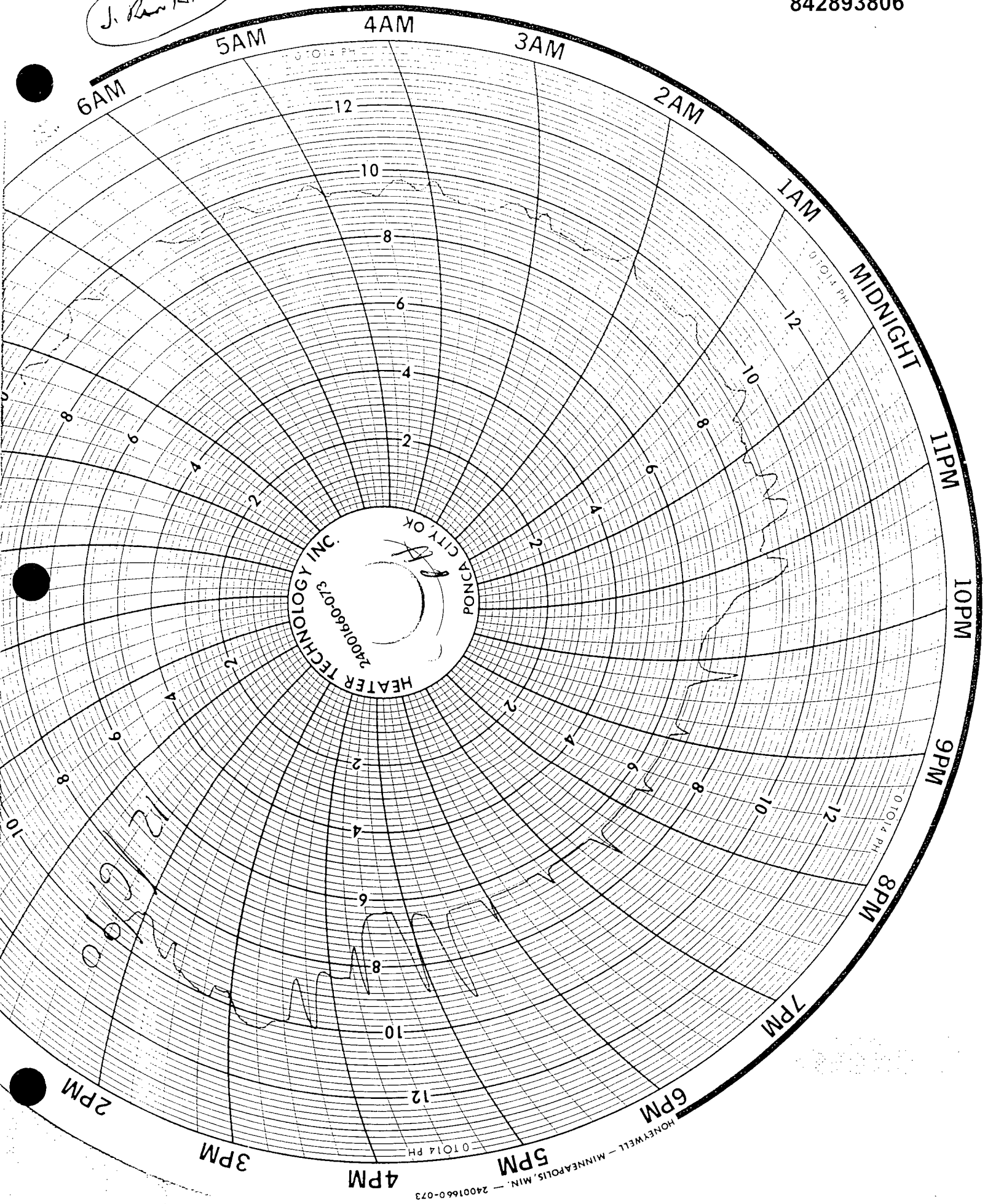


842893805



J. Rankin

842893806



pH CHART

Date
12/6/90

Time

pH

Person Notified

SOURCE OF EFFLUENT
Corrective Action

8 00 9.0

9 00 9.2

10 00 9.2

11 00 8.7

12 00 8.9

13 00 9.4

14 00 8.8

15 00 9.7

16 00 8.4

17 00 7.0

18 00 6.5

19 00 6.5

20 00 6.5

21 00 6.5

22 00 6.6

23 00 8.5

24 00 8.8

1 00 9.2

2 00 9.6

3 00 9.4

4 00 9.6

5 00 9.4

6 00 9.4

7 00 9.6

John Rankin 993-8610

NOTIFY JOHN RANKIN IF EXCURSION EXCEEDS 15 MINUTES

842893808

Pomtek/Box

9AM Tom S. 8AM

7AM

6AM

5AM

4AM

10AM

11AM

HEATER TECHNOLOGY INC.
24001660-073

2H
30NCA CITY, OK

10PM

9PM

8PM

7PM

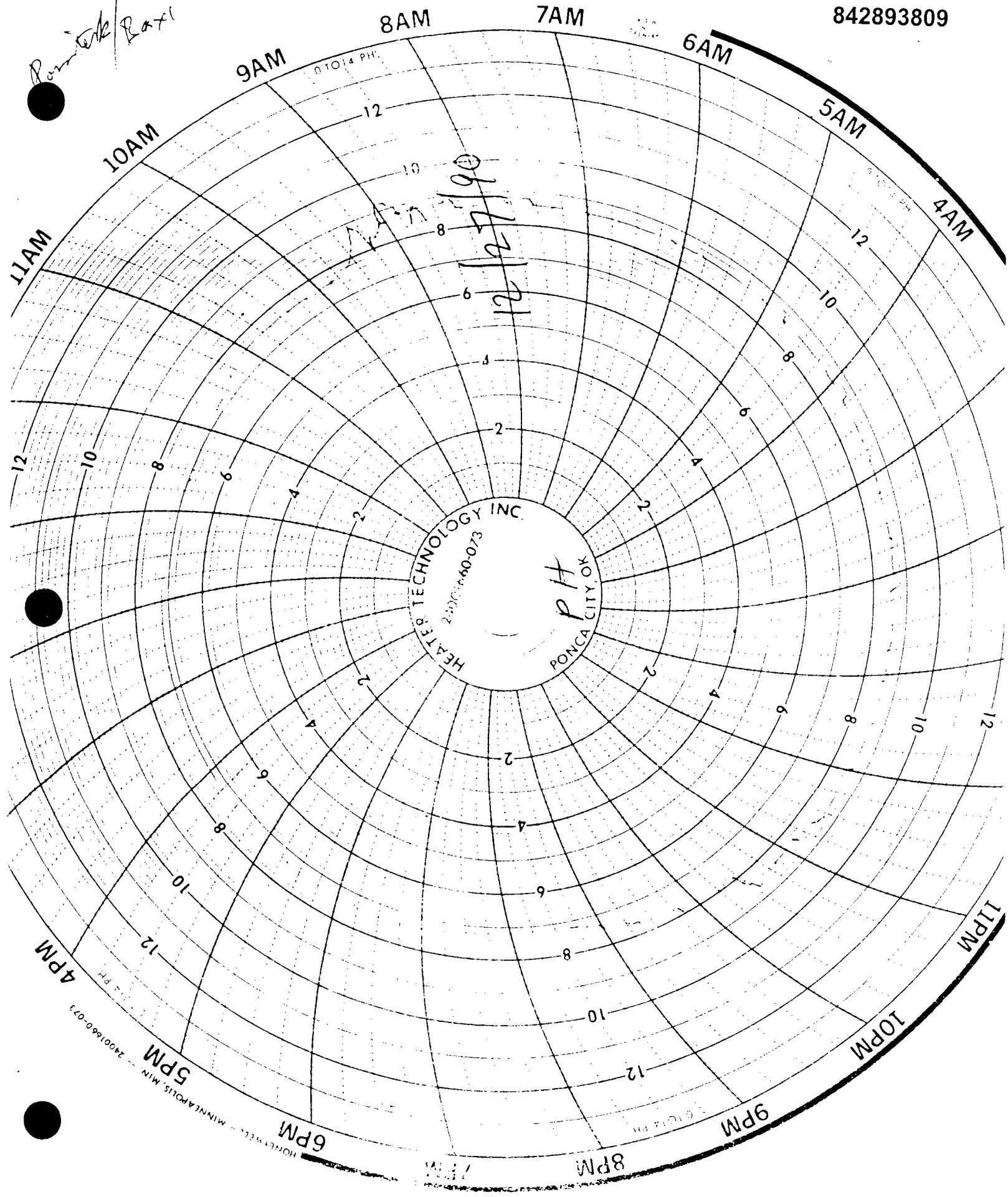
6PM

4PM

3PM

Ponca City Taxi

842893809



HEATER TECHNOLOGY INC
24001460-073

P.M. 1/2/91
CHIPSTON

3AM 4AM 5AM 6AM 7AM 8AM 9AM 10AM 11PM 10PM 9PM 8PM 7PM 6PM 5PM 4PM

James E. Boyl

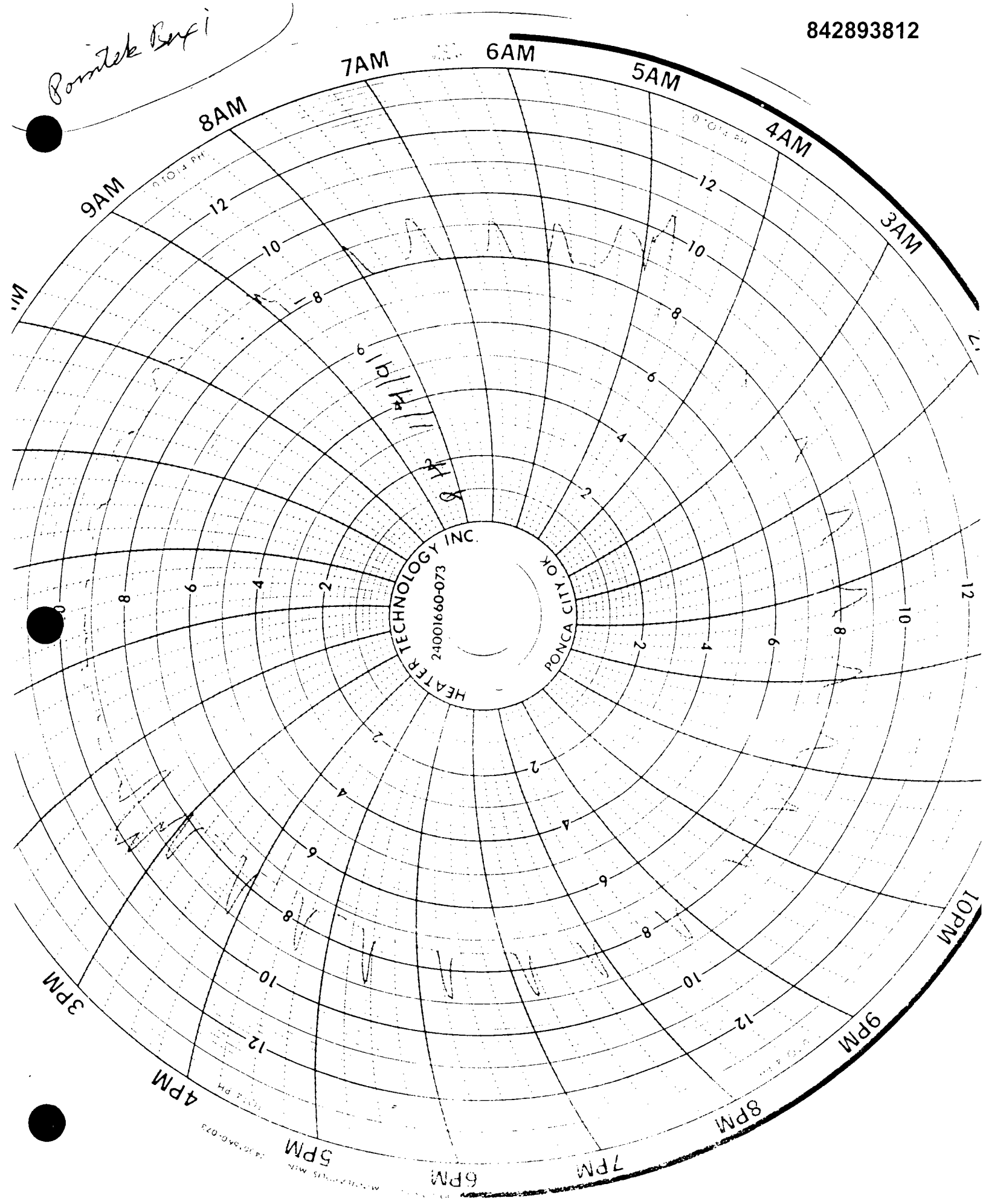
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HEATER TECHNOLOGY INC.
24001660-073

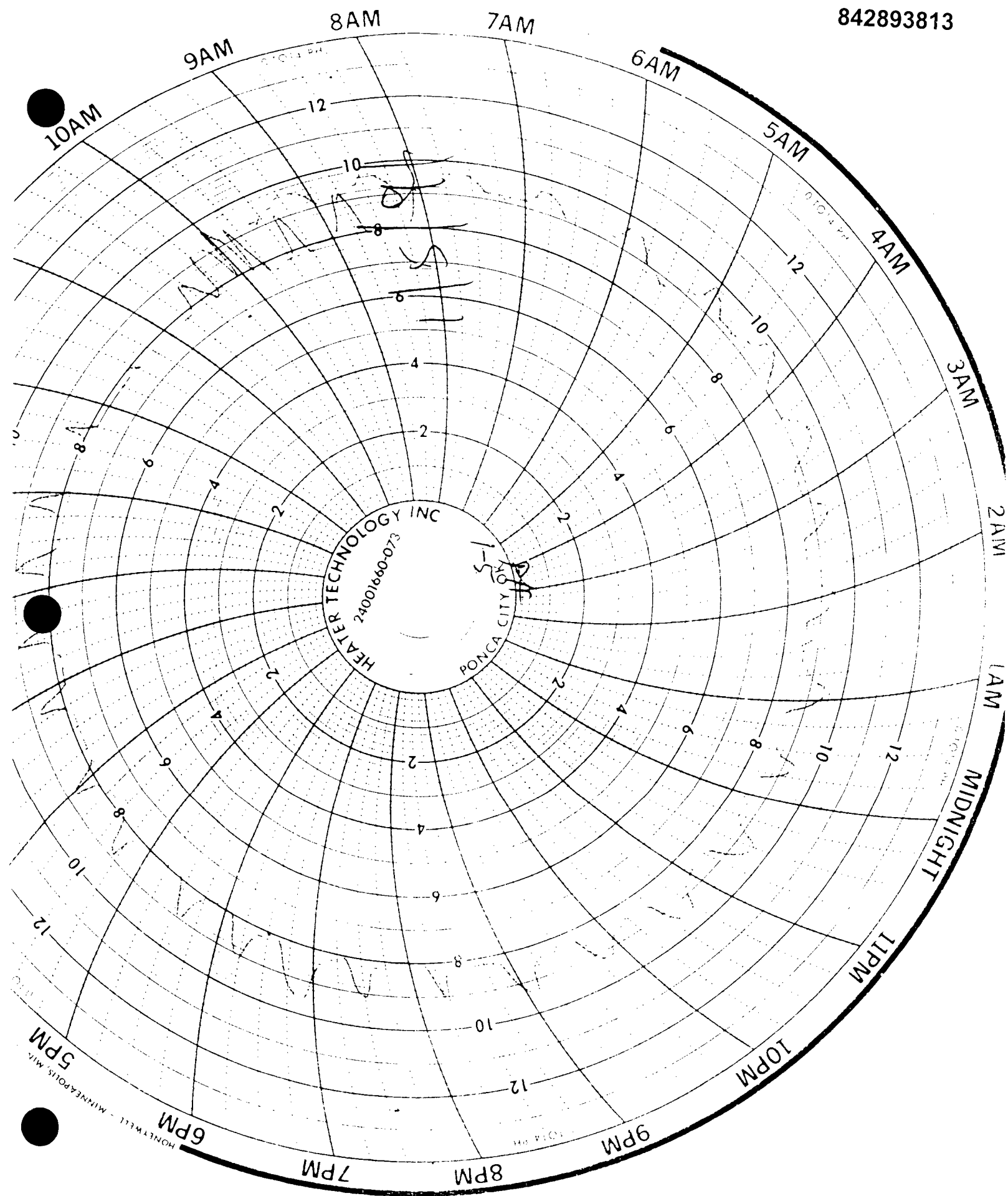
30

Don'tch/Don't

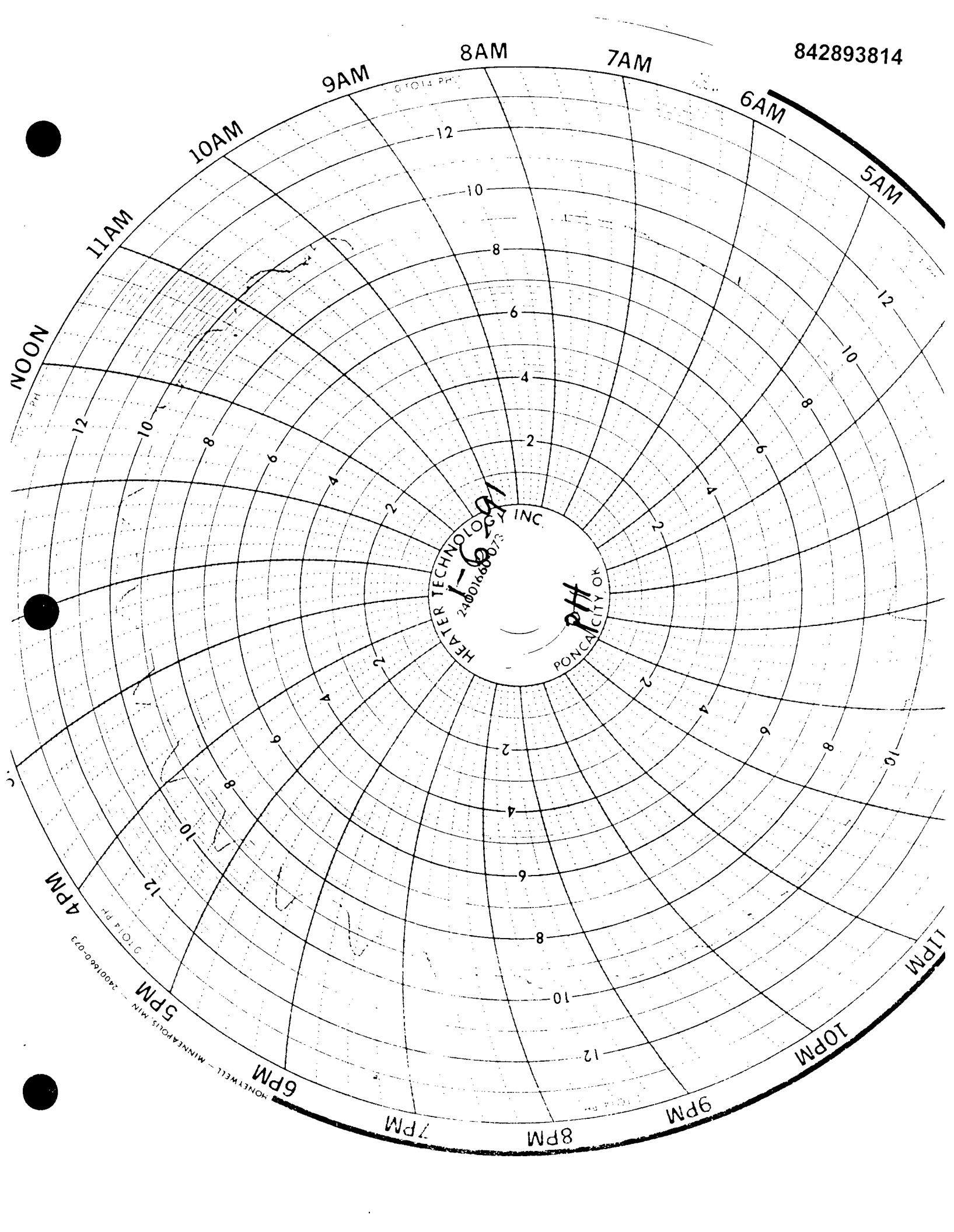
Pointek Bay



842893813



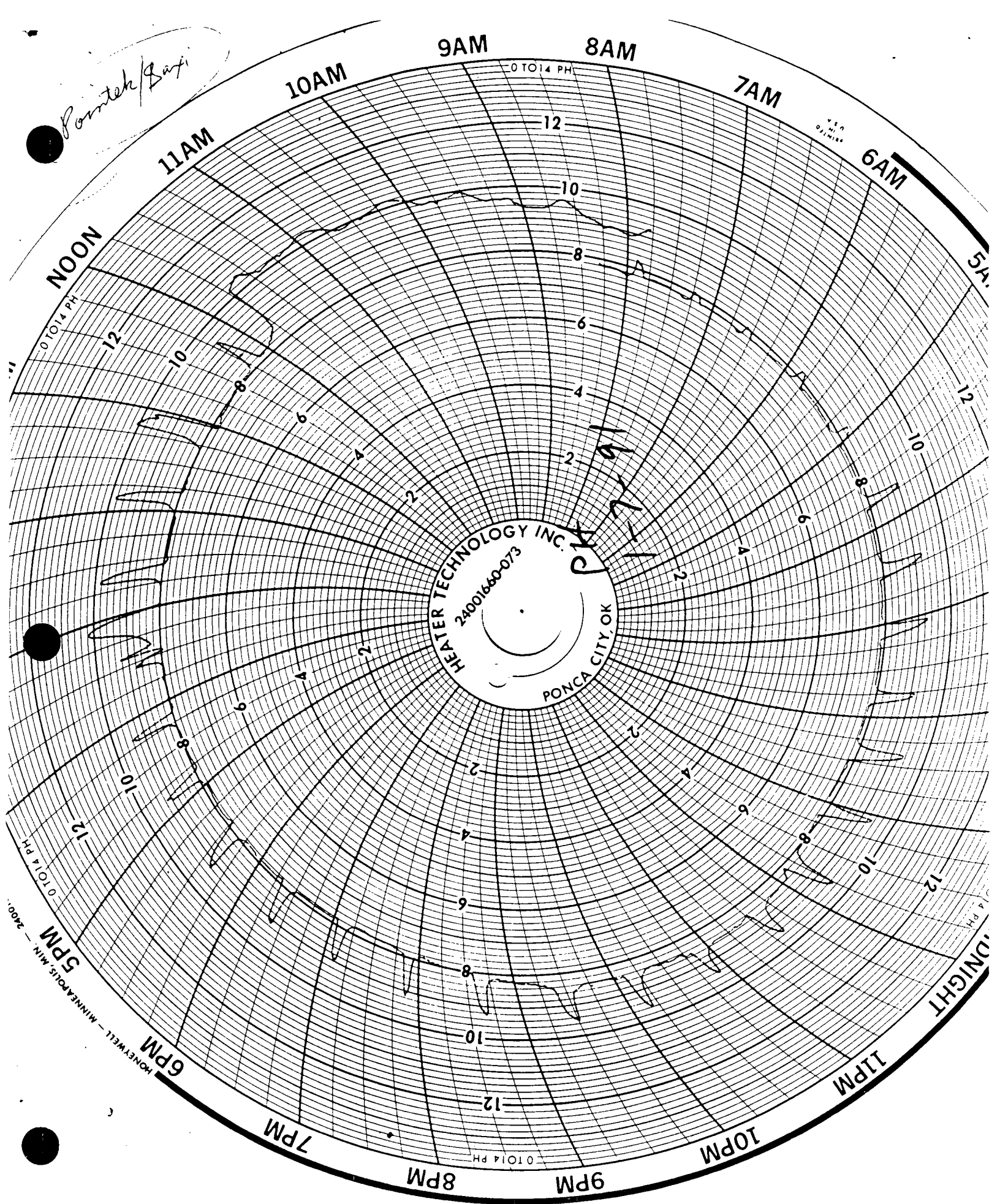
842893814



HEATER TECHNOLOGY INC.
PONCA CITY OK
1-6-89
2400166073

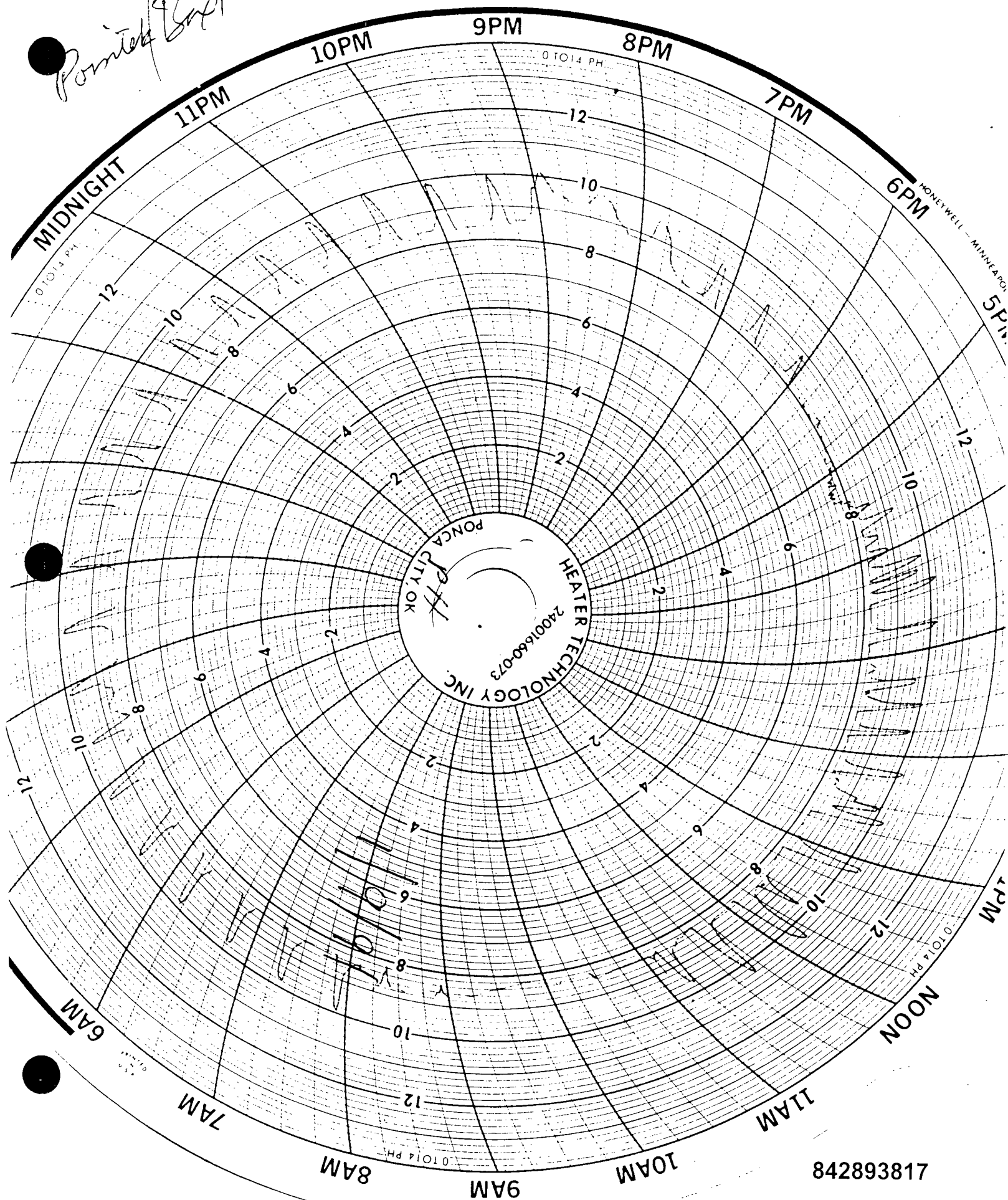
pH CHART

Date	Time	pH	Person Notified	SOURCE OF EFFLUENT CORRECTIVE ACTION
1-6-91	8 00	9.1		
	9 00	8.0		
	10 00	9.6		
	11 00	7.8		
	12 00	7.8		
	13 00	7.8		
	14 00	7.8		
	15 00	7.8		
	16 00	8.8		
	17 00	8.7		
	18 00	8.6		
	19 00	8.6		
	20 00	9.2		
	21 00	9.5		
	22 00	9.8		
	23 00	10.0		
	24 00	9.8		
	1 00	9.8		
	2 00	8.8		
	3 00	9.0		
	4 00	9.0		
	5 00	9.0		
	6 00	9.0		
	7 00	9.2		
1-7-91				



842893816

Pomick Baci



842893817

Pomites/Bayer

HEATER TECHNOLOGY INC.
24001660-073
POWICA CITY, OK

1-8-81

842893818

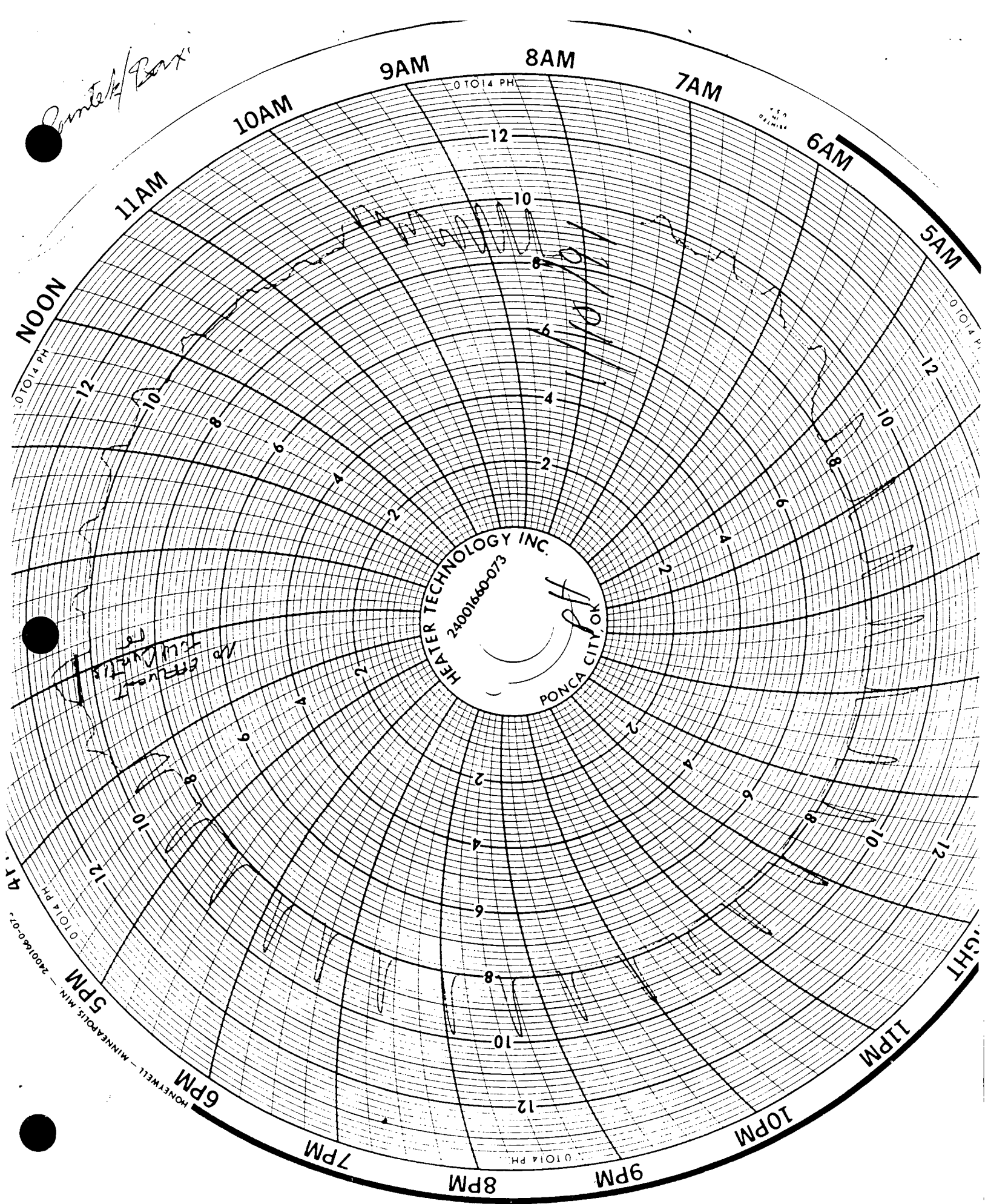
HEATER TECHNOLOGY INC
2400160-073

POCA CITY OK

168-1

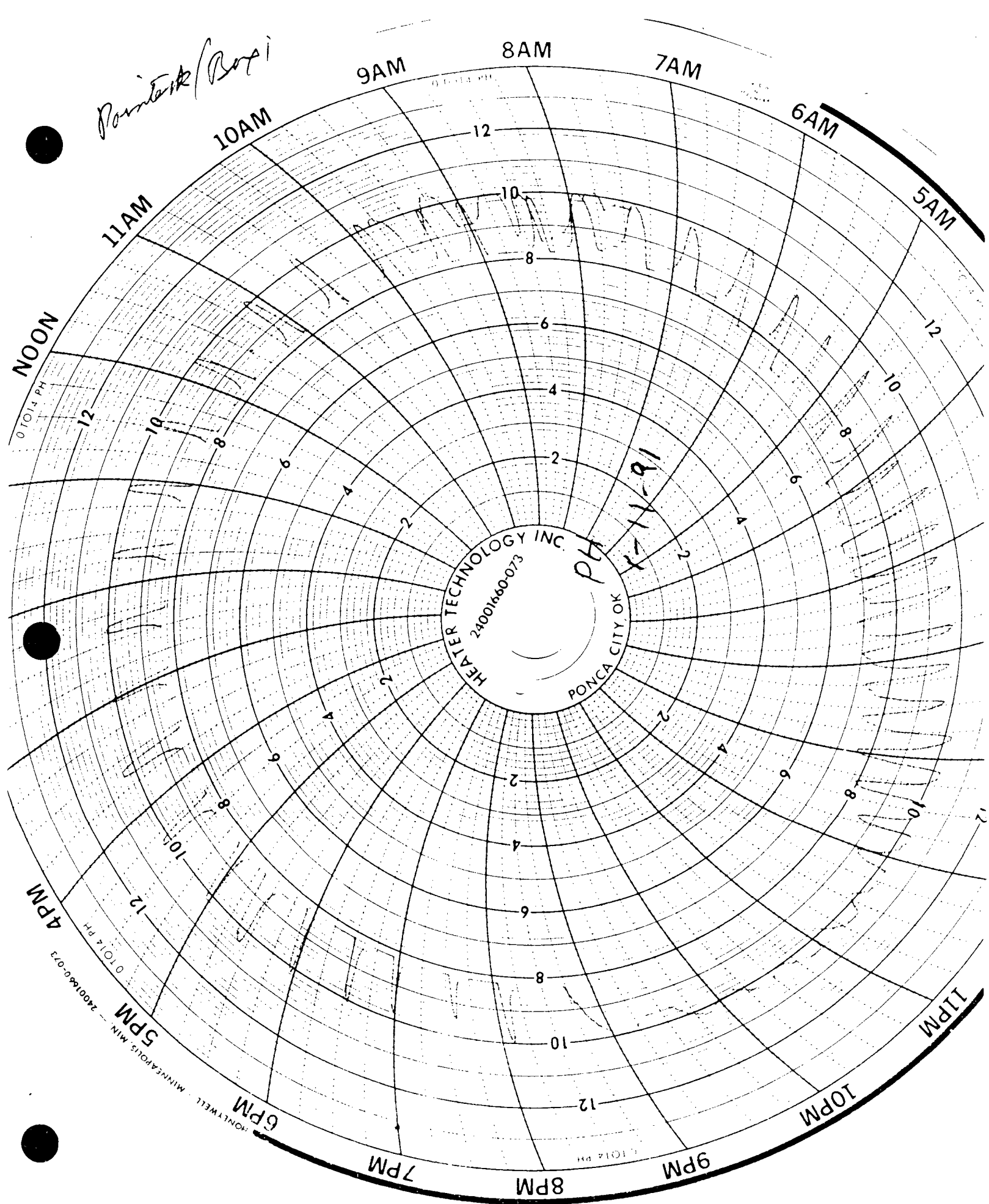
842893818

Conte/Box

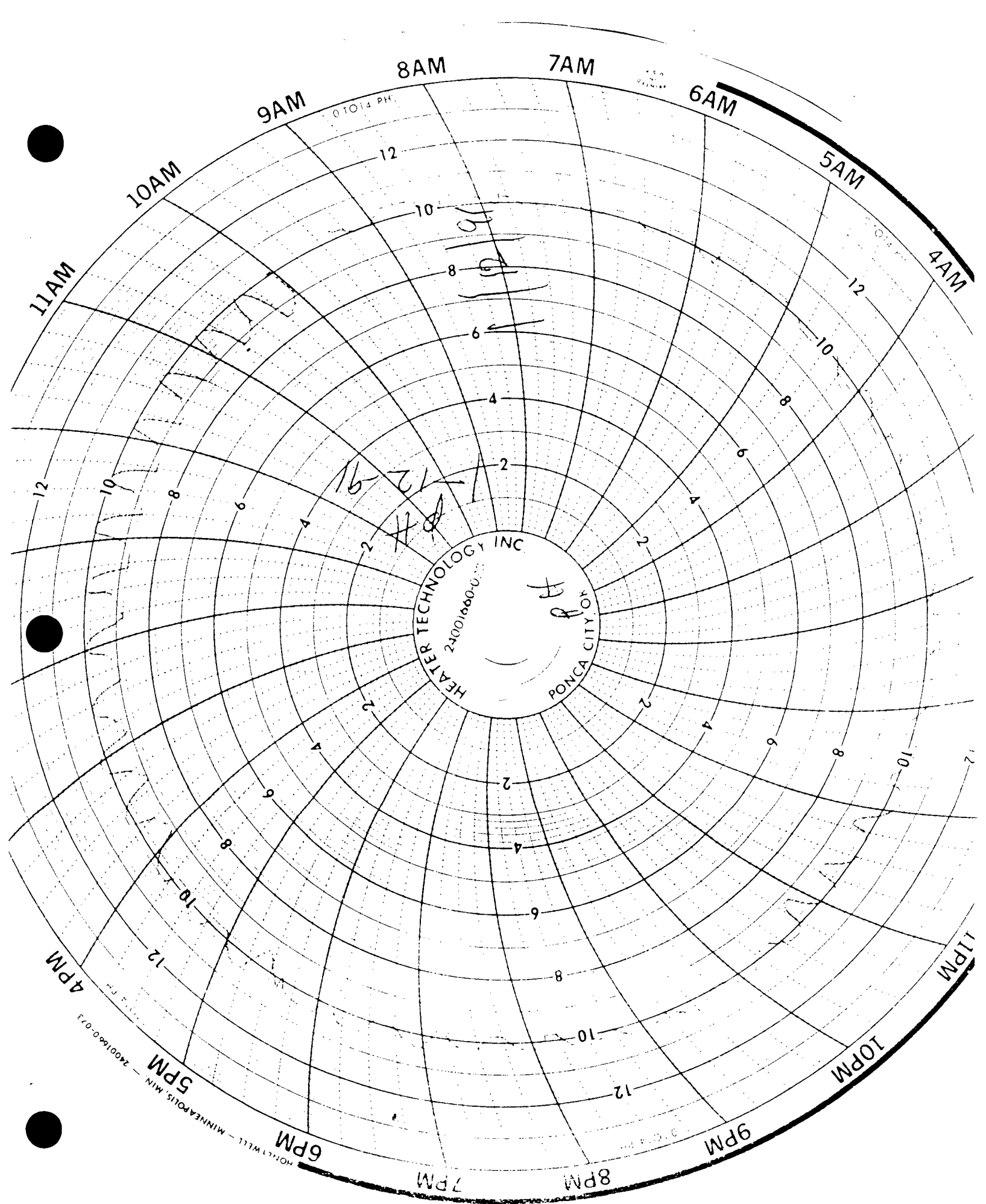


842893819

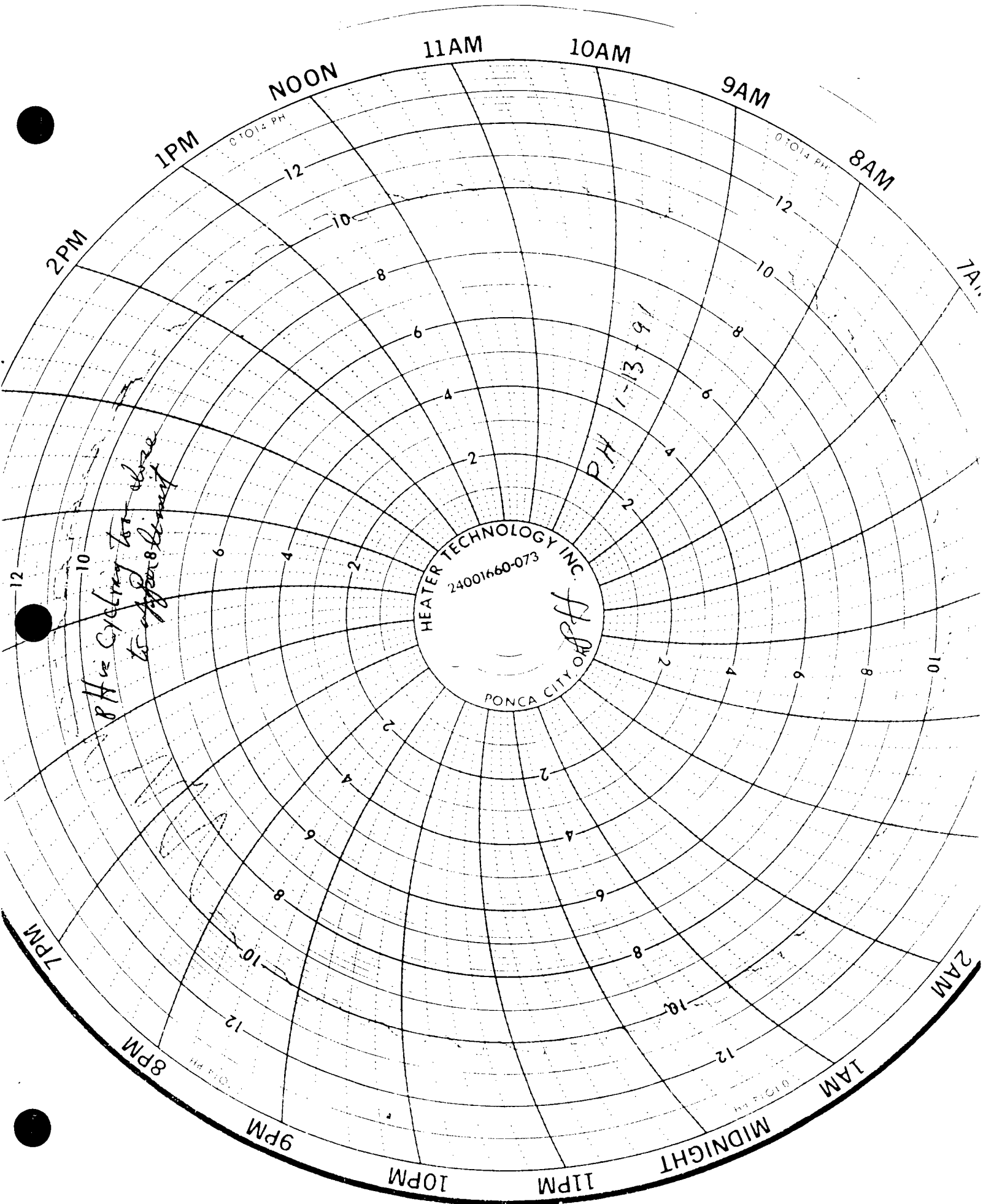
PointTask (Boys)



842893820



842893821



84

→ GUERREY VALLEY SEWERAGE
"PASSAGE VALLEY SEWERAGE"
TO

518.00
518.00

DISCOUNT
0.00
0.00

INVOICE AMOUNT

NET AMOUNT

CHEMICALS, INC.

2000

WILL TO

REICHHOLD CHEMICALS, INC.				INVOICE AMOUNT	DISCOUNT	NET AMOUNT
VENDOR NO.	INVOICE DATE	POST MED.	PLT.			
4836200	08 01 91	080191		518.00	0.00	518.00
4836200	08 01 91	A-8/1/91		518.00	0.00	518.00
						1036.00

DETACH BEFORE DEPOSITING 1385/00106104

00106104

110-09

THIS DOCUMENT HAS A COLORED BACKGROUND ON WHITE PAPER

DETACH BEFORE DEPOSITING

1036.00

REICHHOLD

DOCUMENT HAS A
TESTING DIVISION
COATING POLYMERS & RESINS DIVISION

CHECK DATE

08 12 91
AND 00 CENTS

PLAY

1036 00

11-12	11-12
DOLLARS	CENTS

1110-09

00106104

REICHHOLD CHEMICALS, INC.

DONALD TUCKER
CHAIRMAN

RAYMOND LUCHKO
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
JAMES KRONE
FRANK ORECHIO
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

August 1, 1991

Mr. Arthur Dieffenbach
Reichhold Chemical, Inc.
300-400 Doremus Avenue
Newark, NJ 07105

Dear Mr. Dieffenbach:

According to Section 502.3 of the Passaic Valley Sewerage Commissioners Rules and Regulations which I have enclosed for your referral, "Each industrial user or other user of the PVSC Treatment Works shall reimburse PVSC for those costs incurred if a compliance sample is sent to an outside laboratory for an analysis of one or more parameters which PVSC is not certified to perform." As such, on 02/26/91 sample(s) were taken from your location and sent to an outside laboratory for analysis. The costs for these samples were \$518.00 and are due and payable by Reichhold Chemical, Inc. within 60 days. Please remit your check or money order for **\$518.00**, payable to "Passaic Valley Sewerage Commissioners" and send it directly to:

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 Wilson Avenue
Newark, NJ 07105
Attn: Finance Manager.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

George F. McGehrin
George F. McGehrin
Finance Manager

Encl: PVSC Section 502.3 Rules & Regulations
GFM:jw

cc: Carmine T. Perrapato, Executive Director
F. D'Ascensio, Manager Industrial & Pollution Control

842893824

PART V - ADMINISTRATION

SECTION 501 AUTHORITY, VIOLATIONS, ETC.

- 501.1 These Rules and Regulations are adopted pursuant to N.J.S. 58:14-35 and appropriate State Laws and Regulations, Federal Statutes and Municipal Ordinances.
- 501.2 Any violation of the Rules and Regulations including the failure to pay fees, charges, or surcharges imposed, or any conditions or limitation of a permit issued pursuant thereto shall be subject to such penalties as are provided by law. Said penalties shall be in addition to any sanctions authorized under these Rules and Regulations.
- 501.3 In addition to such penalties as may be provided by law, any person violating these Rules and Regulations shall be civilly liable for such damages as may result to the PVSC as a result of said violation.
- 501.4 Notwithstanding any other provisions of these Rules and Regulations, any user who fails to comply with the Rules and Regulations shall be liable to a fine in an amount not to exceed \$50,000 per day for each day or part thereof that such violation exists. Any user who fails to submit a self-monitoring, compliance, or other report when due shall be liable to a fine not less than the amount established in Appendix C.

SECTION 502 FEES

- 502.1 (RESERVED)
- 502.2 (RESERVED)
- 502.3 Each industrial user or other user of the PVSC Treatment Works shall reimburse PVSC for those costs incurred if a compliance sample is sent to an outside laboratory for an analysis of one or more parameters which PVSC is not certified to perform. This reimbursement provision does not apply if PVSC is certified to perform the analysis but does not. This provision can be invoked no more than two times per year per parameter.
- 502.4 Each user against whom a charge is assessed, shall remit the amount due within 60 days of receipt of the notice unless specific procedures are established on a case by case basis.

842893826

GARDEN STATE LABORATORIES, INC.

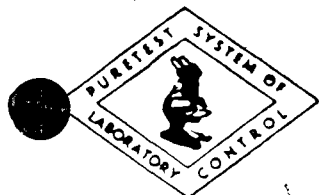
Bacteriological and Chemical Testing

410 Hillside Avenue

Hillside, NJ 07205

Telephone (201) 688-8900

Fax (201) 688-8966



MATHEW KLEIN, M.S., Director

HARVEY KLEIN, M.S., Lab. Supervisor

TO: PASSAIC VALLEY

SEWERAGE COMMISSION

600 WILSON AVENUE

NEWARK

NJ 07105

ATT: MR. ED RYS

REPORT OF VOLATILE
ORGANIC ANALYSIS

REPORT # 910227130

CLIENT # PAS02

DATE SUBMITTED: 2/27/91

SAMPLE TYPE: INDUSTRIAL LIQUID

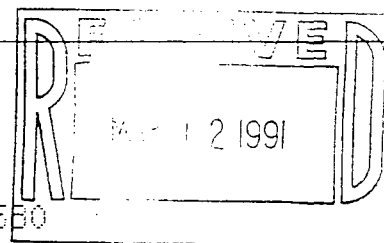
SAMPLE ID: #159448

SAMPLE LOCATION: CUST. # 20406320

@REICHHOLD CHEMICALS, INC. WORK # 41530

DATE SAMPLED: 2/26/91

TIME SAMPLED:



COMPOUND	RESULT	COMPOUND	RESULT
Chloromethane	<25.0	1,1,2 Trichloroethane	<25.0
Bromomethane	<25.0	cis-1,3 Dichloropropylene	<25.0
Dichlorodifluoromethane	<25.0	Benzene	<25.0
Vinyl Chloride	<25.0	2-Chloroethylvinyl ether	<25.0
Chloroethane	<25.0	Bromoform	<25.0
Methylene Chloride	<25.0	1,1,2,2 Tetrachloroethane	<25.0
Trichlorofluoromethane	<25.0	Tetrachloroethylene	<25.0
1,1 Dichloroethylene	<25.0	Toluene	5800* ✓
1,1 Dichloroethane	<25.0	Chlorobenzene	<25.0
trans-1,2 Dichloroethylene	<25.0	Ethylbenzene	2500* ✓
Chloroform	<25.0	p-Xylene	---
1,2 Dichloroethane	<25.0	m-Xylene	7768*
1,1,1 Trichloroethane	<25.0	o-Xylene	---
Carbon Tetrachloride	<25.0	1,2 Dichlorobenzene	<25.0
Bromodichloromethane	<25.0	1,3 Dichlorobenzene	<25.0
1,2 Dichloropropane	<25.0	1,4 Dichlorobenzene	<25.0
trans-1,3 Dichloropropene	<25.0	cis-1,2 Dichloroethylene	<25.0
Trichloroethylene	<25.0	O.P-Xylene	5238
Dibromochloromethane	<25.0	Date of Analysis	3/1/91
Methyl tert-Butyl Ether	<25.0	*Run at 1:100 Dilution On:	3/1/91
Isopropyl Ether	41.5		

RESULTS ARE IN PARTS PER BILLION.

<=LESS THAN, NONE DETECTED. ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY USEPA METHOD 624.

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. - Lab #07044

842893827

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue

Hillside, NJ 07205

Telephone (201) 688-8900

Fax (201) 688-8966

MATHEW KLEIN, M.S., Director

HARVEY KLEIN, M.S., Lab. Supervisor

TO: PASSAIC VALLEY SEWERAGE COMM
600 WILSON AVENUE

REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS

REPORT # 910227126

CLIENT # PAS02

DATE SUBMITTED: 2/27/91

NEWARK

NJ 07105

ATT: MR. ED RYS

SAMPLE TYPE: INDUSTRIAL LIQUIDS

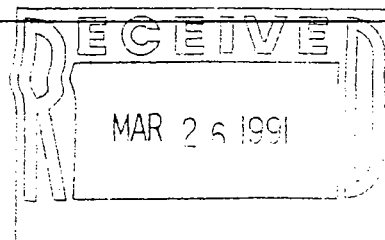
SAMPLE ID: 159494

SAMPLE LOCATION: @REICHOLD CHEMICALS, INC.

141584/141585 PO#125618

DATE SAMPLED: 2/26/91

TIME SAMPLED:



COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<2.0
2-CHLOROPHENOL	<2.0
2,4-DICHLOROPHENOL	<2.0
2,4-DIMETHYLPHENOL	<2.0
2,4-DINITROPHENOL	<10.0
2-METHYL 4,6-DINITROPHENOL	<10.0
2-NITROPHENOL	<2.0

COMPOUND	RESULT
4-NITROPHENOL	<10.0
PENTACHLOROPHENOL	<10.0
PHENOL	<2.0
2,4,6-TRICHLOROPHENOL	<2.0
DATE EXTRACTED:	3/4/91
DATE ANALYZED:	3/21/91

TEST RESULTS ARE IN PARTS PER MILLION.

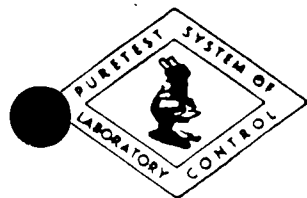
<=LESS THAN, NONE DETECTED.

ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. - Lab #07044

3



GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue

Hillside, NJ 07205

Telephone (201) 688-8900

Fax (201) 688-8966

REPORT OF BASE/NEUTRAL ANALYSIS

MATHEW KLEIN, M.S., Director

HARVEY KLEIN, M.S., Lab. Supervisor

TO: PASSAIC VALLEY SEWERAGE COMM
600 WILSON AVENUE

REPORT # 910227126

CLIENT # PAS02

DATE SUBMITTED: 2/27/91

NEWARK

NJ 07105

ATT: MR. ED. RYS

SAMPLE TYPE: INDUSTRIAL LIQUIDS

SAMPLE ID: 159494

SAMPLE LOCATION: @REICHHOLD CHEMICALS, INC.

141584/141585 P0#125618

DATE SAMPLED: 2/26/91

TIME SAMPLED:

MAR 26 1991

COMPOUND	RESULT
ACENAPHTHENE	<2.0
ACENAPHTHYLENE	<2.0
ANTHRACENE	<2.0
BENZIDINE	<10.0
BENZO(a)ANTHRACENE	<2.0
BENZO(b)FLUORANTHENE	<2.0
BENZO(k)FLUORANTHENE	<2.0
BENZO(a)PYRENE	<2.0
BENZO(ghi)PERYLENE	<2.0
BENZYL BUTYL PHTHALATE	<2.0
BIS(2-CHLOROETHYL)ETHER	<2.0
BIS(2-CHLOROETHOXY)METHANE	<2.0
BIS(2-ETHYLHEXYL)PHTHALATE	<2.0
BIS(2-CHLOROISOPROPYL)ETHER	<2.0
4-BROMOPHENYL PHENYL ETHER	<2.0
2-CHLORONAPHTHALENE	<2.0
4-CHLOROPHENYLPHENYL ETHER	<2.0
CHRYSENE	<2.0
DIBENZO(a,h)ANTHRACENE	<2.0
DI-N-BUTYL PHTHALATE	<2.0
1,3-DICHLOROBENZENE	<2.0
1,2-DICHLOROBENZENE	<2.0
1,4-DICHLOROBENZENE	<2.0
3,3'-DICHLOROBENZIDINE	<2.0
DIETHYL PHTHALATE	<2.0
DIMETHYL PHTHALATE	<2.0

COMPOUND	RESULT
2,4-DINITROTOLUENE	<2.0
2,6-DINITROTOLUENE	<2.0
DI-N-OCTYLPHTHLATE	<2.0
FLUORANTHENE	<2.0
FLUORENE	<2.0
HEXACHLOROBENZENE	<2.0
HEXACHLOROBUTADIENE	<2.0
HEXACHLOROCYCLOPENTADIENE	<2.0
HEXACHLOROETHANE	<2.0
INDENO(1,2,3-cd)PYRENE	<2.0
ISOPHORONE	<2.0
NAPHTHALENE	<2.0
NITROBENZENE	<2.0
N-NITROSODIMETHYLAMINE	<2.0
N-NITROSODI-N-PROPYLAMINE	<2.0
N-NITROSODIPHENYLAMINE	<2.0
PHENANTHRENE	<2.0
PYRENE	<2.0
1,2,4-TRICHLOROBENZENE	<2.0
DATE EXTRACTED:	3/4/91
DATE ANALYZED:	3/21/91

ULTS ARE IN PARTS PER MILLION.

<= LESS THAN, NONE DETECTED

ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P. — Lab #07044

DONALD TUCKER
CHAIRMAN

RAYMOND LUCHKO
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RONALD W. GIACONIA
JAMES KRONE
FRANK ORECHIO
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

December 12, 1991

Reichhold Chemical, Inc.
300-400 Doremus Avenue
Newark, New Jersey 07105

ATTN: Robert Naujelis

Dear Mr. Naujelis:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any further questions please contact Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Joe Smith
Industrial

JS/mc

Attachments

14-17
No 6(a) iv
Hem 39
Grab sampling
1991

842893829

Monitoring Period 7/1/91 thru 9/30/91

REPORT: MW0272 PASADENA VALLEY SEWERAGE COMMISSIONERS 11/26/91 PAGE: 40

PVSC MONITORING REPORT

MONITORING PERIOD: 07/01/91 THRU 09/30/91

UD120406220

NAME: REICHOLD CHEMICALS, INC.
ADDRESS: 390-400 600 BUS AVENUE
NEWARK NJ 07102

CONC (MG)	DATE	IND1	IND2	IND3	IND4
		0010 (MG/L)	0020 (MG/L)	0030 (MG/L)	0040 (MG/L)
0.521	07/11/91	5625.0000	750.0000		5.0000
	07/31/91				
Avg SAMPLE:		5625.0000	750.0000		
1.274	08/06/91	8925.0000	116.0000		5.0000
	08/31/91				
Avg SAMPLE:		8925.0000	116.0000		
0.351	09/04/91	22250.0000	204.0000		9.0000
	09/30/91				
Avg SAMPLE:		22250.0000	204.0000		

842893830

Monitoring Period 7/1/91 thru 9/30/91

842893831

ID:20403701

NAME: REICHOLD CHEMICALS INC.
ADDRESS: 46 ALBERT AVENUE
NEWARK

NJ 07105

VOLUME (MG)	DATE	IND1	P03 0310 (MG/L)	IND2	P06 0530 (MG/L)	IND3	P08 0555 (MG/L)	IND4	P09 0000 (MG/L)
0.483	07/31/91								
	08/29/91				14.0000				7.8000
AVG SAMPLE:					14.0000				

ID:20403701

NAME: REICHOLD CHEMICALS INC.
ADDRESS: 46 ALBERT AVENUE
NEWARK

NJ 07105

VOLUME (MG)	DATE	IND1	CMY 0720 (MG/L)	IND2	CNA 0722 (MG/L)	IND3	PB 1051 (MG/L)	IND4	ZN 1092 (MG/L)
0.432	07/31/91								
	09/09/91					<	0.1200		0.2810
AVG SAMPLE:							0.1200		0.2810

DONALD TUCKER
CHAIRMAN

RAYMOND LUCHKO
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RONALD W. GIACONIA
JAMES KRONE
FRANK ORECHIO
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

March 23, 1992

Reichhold Chemical, Inc.
300-400 Doremus Avenue
Newark, NJ 07105

ATT: Robert Naujelis

Dear Mr. Naujelis:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any further questions please contact Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Joe Smith
Industrial Technician II

JS/mc

Attachments

842893832

Monitoring Period 10/1 - 12/31/91

1991				1990			
Category	Subcategory	Value	Unit	Category	Subcategory	Value	Unit
Operating Expenses	Salaries	24,000.00	Dollars	Operating Expenses	Salaries	24,000.00	Dollars
	Travel	12,000.00	Dollars		Travel	12,000.00	Dollars
	Telephone	18,000.00	Dollars		Telephone	18,000.00	Dollars
	Postage	6,000.00	Dollars		Postage	6,000.00	Dollars
	Supplies	10,000.00	Dollars		Supplies	10,000.00	Dollars
	Repairs	20,000.00	Dollars		Repairs	20,000.00	Dollars
Total Operating Expenses				Total Operating Expenses			
100,000.00				100,000.00			
Capital Expenses	Equipment	10,000.00	Dollars	Capital Expenses	Equipment	10,000.00	Dollars
	Buildings	20,000.00	Dollars		Buildings	20,000.00	Dollars
	Land	10,000.00	Dollars		Land	10,000.00	Dollars
	Other	10,000.00	Dollars		Other	10,000.00	Dollars
	Depreciation	10,000.00	Dollars		Depreciation	10,000.00	Dollars
	Amortization	10,000.00	Dollars		Amortization	10,000.00	Dollars
Total Capital Expenses				Total Capital Expenses			
60,000.00				60,000.00			
Total Expenses				Total Expenses			
160,000.00				160,000.00			
Revenue				Revenue			
160,000.00				160,000.00			
Net Income				Net Income			
0.00				0.00			

842893833

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

February 18, 1993

Reichhold Chemical, Inc.
300-400 Doremus Avenue
Newark, NJ 07105

ATT: Robert Naujelis

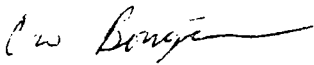
Dear Mr. Naujelis:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any further questions, please contact Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS


Cris Bongiorno
Industrial Technician II

CB/mc

Attachments

842893834

MONITORING PERIOD 7/1/92 THRU 12/31/92

842893835

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

September 15, 1993

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

Reichhold Chemical Inc.
300-400 Doremus Avenue
Newark NJ 07105
Arthur Diffenbach


Dear Mr. Diffenbach:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any further questions please contact Mario Graglia at (201)817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS


Joe Smith
Industrial Technical II

JS/sml

attachments

842893836

842893837

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

**Passaic Valley
Sewerage Commissioners**

**600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951**

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

July 2, 1993

Reichhold Chemical Inc.
300-400 Doremus Avenue
Newark NJ 07105
Robert Naujelis

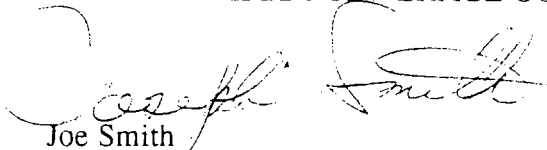
Dear Mr. Naujelis:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any further questions, please contact Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS


Joe Smith
Industrial Technician II

JS/mc

Attachments

842893838

MONITORING REPORT 1/1/93 THRU 3/31/93

REPORT DATE: 04/01/93

REPORT BY: [illegible]

REPORT FOR: [illegible]

REPORT ON: [illegible]

REPORT OF: [illegible]

REPORT BY: [illegible]

DATE	TIME	LOCATION	WIND	TEMP	HUMID	PRECIP	WAVE	SEA
01/01/93	00:00	0100	010	010	010	010	010	010
01/01/93	01:00	0100	010	010	010	010	010	010
01/01/93	02:00	0100	010	010	010	010	010	010
01/01/93	03:00	0100	010	010	010	010	010	010
01/01/93	04:00	0100	010	010	010	010	010	010
01/01/93	05:00	0100	010	010	010	010	010	010
01/01/93	06:00	0100	010	010	010	010	010	010
01/01/93	07:00	0100	010	010	010	010	010	010
01/01/93	08:00	0100	010	010	010	010	010	010
01/01/93	09:00	0100	010	010	010	010	010	010
01/01/93	10:00	0100	010	010	010	010	010	010
01/01/93	11:00	0100	010	010	010	010	010	010
01/01/93	12:00	0100	010	010	010	010	010	010
01/01/93	13:00	0100	010	010	010	010	010	010
01/01/93	14:00	0100	010	010	010	010	010	010
01/01/93	15:00	0100	010	010	010	010	010	010
01/01/93	16:00	0100	010	010	010	010	010	010
01/01/93	17:00	0100	010	010	010	010	010	010
01/01/93	18:00	0100	010	010	010	010	010	010
01/01/93	19:00	0100	010	010	010	010	010	010
01/01/93	20:00	0100	010	010	010	010	010	010
01/01/93	21:00	0100	010	010	010	010	010	010
01/01/93	22:00	0100	010	010	010	010	010	010
01/01/93	23:00	0100	010	010	010	010	010	010

REPORT DATE: 04/01/93 REPORT BY: [illegible] REPORT FOR: [illegible] REPORT ON: [illegible] REPORT OF: [illegible]

REPORT DATE: 04/01/93

REPORT BY: [illegible] REPORT FOR: [illegible] REPORT ON: [illegible] REPORT OF: [illegible]

REPORT DATE: 04/01/93 REPORT BY: [illegible] REPORT FOR: [illegible] REPORT ON: [illegible] REPORT OF: [illegible]

DATE	TIME	LOCATION	WIND	TEMP	HUMID	PRECIP	WAVE	SEA
01/01/93	00:00	0100	010	010	010	010	010	010
01/01/93	01:00	0100	010	010	010	010	010	010
01/01/93	02:00	0100	010	010	010	010	010	010
01/01/93	03:00	0100	010	010	010	010	010	010
01/01/93	04:00	0100	010	010	010	010	010	010
01/01/93	05:00	0100	010	010	010	010	010	010
01/01/93	06:00	0100	010	010	010	010	010	010
01/01/93	07:00	0100	010	010	010	010	010	010
01/01/93	08:00	0100	010	010	010	010	010	010
01/01/93	09:00	0100	010	010	010	010	010	010
01/01/93	10:00	0100	010	010	010	010	010	010
01/01/93	11:00	0100	010	010	010	010	010	010
01/01/93	12:00	0100	010	010	010	010	010	010
01/01/93	13:00	0100	010	010	010	010	010	010
01/01/93	14:00	0100	010	010	010	010	010	010
01/01/93	15:00	0100	010	010	010	010	010	010
01/01/93	16:00	0100	010	010	010	010	010	010
01/01/93	17:00	0100	010	010	010	010	010	010
01/01/93	18:00	0100	010	010	010	010	010	010
01/01/93	19:00	0100	010	010	010	010	010	010
01/01/93	20:00	0100	010	010	010	010	010	010
01/01/93	21:00	0100	010	010	010	010	010	010
01/01/93	22:00	0100	010	010	010	010	010	010
01/01/93	23:00	0100	010	010	010	010	010	010

REPORT DATE: 04/01/93

842893839

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

January 12, 1994

Mr. Arthur Dieffenbach
Reichhold Chemicals, Inc.
300-400 Doremus Avenue
Newark, NJ 07105

RE: SAMPLE #I- 80977

Dear Mr. Dieffenbach:

According to Section 502.3 of the Passaic Valley Sewerage Commissioners Rules and Regulations which I have enclosed for your referral, "Each industrial user or other user of the PVSC Treatment Works shall reimburse PVSC for those costs incurred if a compliance sample is sent to an outside laboratory for an analysis of one or more parameters which PVSC is not certified to perform." As such, on 09/30/93 sample(s) were taken from your location and sent to an outside laboratory for analysis. The costs for these samples were \$149.00 and are due and payable by Reichhold Chemicals, Inc. within 60 days. Please remit your check or money order for \$149.00, payable to "Passaic Valley Sewerage Commissioners" and send it directly to:

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 Wilson Avenue
Newark, NJ 07105
Attn: Finance Manager.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

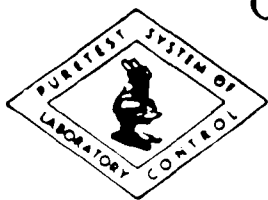

George F. McGehrin
Finance Manager

Enclosures: PVSC Section 502.3 Rules & Regulations.
Outside Analysis Report.

GFM:lr

cc: Carmine T. Perrapato, Executive Director
F. D'Ascensio, Manager Industrial & Pollution Control

842893840



GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

REPORT OF ANALYSIS VOLATILE ORGANIC COMPOUNDS

MATHEW KLEIN, M.S., Director

HARVEY KLEIN, M.S., Lab Supervisor

Telephone (908) 688-8900
Fax (908) 688-8966

REPORT # 931001061.0

CLIENT # PAS02

DATE SUBMITTED: 10/1/93

TO: PASSAIC VALLEY

SEWERAGE COMMISSION

600 WILSON AVENUE

NEWARK

NJ 07105

ATT: MR. ED RYS

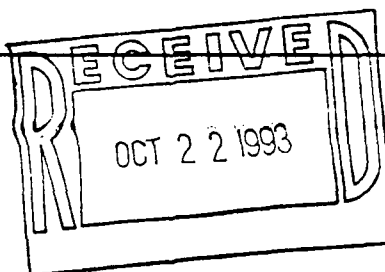
SAMPLE TYPE: INDUSTRIAL LIQUID

SAMPLE ID: P.O. # 145100 1-80977

SAMPLE LOCATION:

DATE SAMPLED: 9/30/93

TIME SAMPLED:



COMPOUND	RESULT
Chloromethane	<5.0
Bromomethane	<5.0
Dichlorodifluoromethane	<5.0
Vinyl Chloride	<5.0
Chloroethane	<5.0
Methylene Chloride	<5.0
Trichlorofluoromethane	<5.0
1,1 Dichloroethylene	<5.0
1,1 Dichloroethane	<5.0
trans-1,2 Dichloroethylene	<5.0
Chloroform	<5.0
1,2 Dichloroethane	<5.0
1,1,1 Trichloroethane	<5.0
Carbon Tetrachloride	<5.0
Bromodichloromethane	<5.0
1,2 Dichloropropane	<5.0
trans-1,3 Dichloropropene	<5.0
Trichloroethylene	<5.0
Dibromochloromethane	<5.0
Methyl tert-Butyl Ether	<5.0
Isopropyl Ether	<5.0

COMPOUND	RESULT
1,1,2 Trichloroethane	<5.0
cis-1,3 Dichloropropylene	<5.0
Benzene	<5.0
2-Chloroethylvinyl ether	<5.0
Bromoform	<5.0
1,1,2,2 Tetrachloroethane	<5.0
Tetrachloroethylene	<5.0
Toluene	60.8
Chlorobenzene	<5.0
Ethylbenzene	85.0
p-Xylene	---
m-Xylene	---
o-Xylene	85.6
1,2 Dichlorobenzene	<5.0
1,3 Dichlorobenzene	<5.0
1,4 Dichlorobenzene	<5.0
cis-1,2 Dichloroethylene	<5.0
m+p-Xylene	284
Date of Analysis	10/1/93

RESULTS ARE IN PARTS PER BILLION.

<=LESS THAN, NONE DETECTED. ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY USEPA METHOD 624.

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

PART V - ADMINISTRATION

SECTION 501 AUTHORITY, VIOLATIONS, ETC.

- 501.1 These Rules and Regulations are adopted pursuant to N.J.S. 58:14-35 and appropriate State Laws and Regulations, Federal Statutes and Municipal Ordinances.
- 501.2 Any violation of the Rules and Regulations including the failure to pay fees, charges, or surcharges imposed, or any conditions or limitation of a permit issued pursuant thereto shall be subject to such penalties as are provided by law. Said penalties shall be in addition to any sanctions authorized under these Rules and Regulations.
- 501.3 In addition to such penalties as may be provided by law, any person violating these Rules and Regulations shall be civilly liable for such damages as may result to the PVSC as a result of said violation.
- 501.4 Notwithstanding any other provisions of these Rules and Regulations, any user who fails to comply with the Rules and Regulations shall be liable to a fine in an amount not to exceed \$50,000 per day for each day or part thereof that such violation exists. Any user who fails to submit a self-monitoring, compliance, or other report when due shall be liable to a fine not less than the amount established in Appendix C.

SECTION 502 FEES

- 502.1 (RESERVED)
- 502.2 (RESERVED)
- 502.3 Each industrial user or other user of the PVSC Treatment Works shall reimburse PVSC for those costs incurred if a compliance sample is sent to an outside laboratory for an analysis of one or more parameters which PVSC is not certified to perform. This reimbursement provision does not apply if PVSC is certified to perform the analysis but does not. This provision can be invoked no more than two times per year per parameter.
- 502.4 Each user against whom a charge is assessed, shall remit the amount due within 60 days of receipt of the notice unless specific procedures are established on a case by case basis.

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

January 12, 1994

Mr. Arthur Dieffenbach
Reichhold Chemicals, Inc.
300-400 Doremus Avenue
Newark, NJ 07105

RE: SAMPLE #I-80969

Dear Mr. Dieffenbach:

According to Section 502.3 of the Passaic Valley Sewerage Commissioners Rules and Regulations which I have enclosed for your referral, "Each industrial user or other user of the PVSC Treatment Works shall reimburse PVSC for those costs incurred if a compliance sample is sent to an outside laboratory for an analysis of one or more parameters which PVSC is not certified to perform." As such, on 09/30/93 sample(s) were taken from your location and sent to an outside laboratory for analysis. The costs for these samples were \$298.00 and are due and payable by Reichhold Chemicals, Inc. within 60 days. Please remit your check or money order for \$298.00, payable to "Passaic Valley Sewerage Commissioners" and send it directly to:

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 Wilson Avenue
Newark, NJ 07105
Attn: Finance Manager.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

George F. McGehrin

George F. McGehrin
Finance Manager

Enclosures: PVSC Section 502.3 Rules & Regulations.
Outside Analysis Report.

GFM:lr

cc: Carmine T. Perrapato, Executive Director
F. D'Ascensio, Manager Industrial & Pollution Control

842893843

GARDEN STATE LABORATORIES, INC.

Bacteriological and Chemical Testing

410 Hillside Avenue
Hillside, NJ 07205

Telephone (908) 688-8900
Fax (908) 688-8966

MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab Supervisor

REPORT OF ANALYSIS BASE/NEUTRAL COMPOUNDS

TO: PASSAIC VALLEY SEWERAGE COMM
600 WILSON AVENUE

REPORT # 931001058.0

CLIENT # PAS02

DATE SUBMITTED: 10/1/93

NEWARK

NJ 07105

ATT: MR. ED. RYS

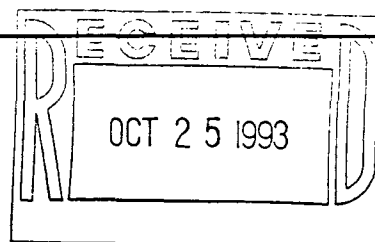
SAMPLE TYPE: INDUSTRIAL LIQUID

SAMPLE ID: P.O. #145100 1-80969

SAMPLE LOCATION:

DATE SAMPLED: 9/30/93

TIME SAMPLED:



COMPOUND	RESULT	COMPOUND	RESULT
ACENAPHTHENE	<10	2,4-DINITROTOLUENE	<10
ACENAPHTHYLENE	<10	2,6-DINITROTOLUENE	<10
ANTHRACENE	<10	DI-N-OCTYLPHTHALATE	<10
BENZIDINE	<50	FLUORANTHENE	<10
BENZO(a)ANTHRACENE	<10	FLUORENE	<10
BENZO(b)FLUORANTHENE	<10	HEXACHLOROBENZENE	<10
BENZO(k)FLUORANTHENE	<10	HEXACHLOROBUTADIENE	<10
BENZO(a)PYRENE	<10	HEXACHLOROCYCLOPENTADIENE	<10
BENZO(ghi)PERYLENE	<10	HEXACHLOROETHANE	<10
BENZYL BUTYL PHTHALATE	<10	INDENO(1,2,3-cd)PYRENE	<10
BIS(2-CHLOROETHYL)ETHER	<10	ISOPHORONE	<10
BIS(2-CHLOROETHOXY)METHANE	<10	NAPHTHALENE	<10
BIS(2-ETHYLHEXYL)PHTHALATE	124.	NITROBENZENE	<10
BIS(2-CHLOROISOPROPYL)ETHER	<10	N-NITROSODIMETHYLAMINE	<10
4-BROMOPHENYL PHENYL ETHER	<10	N-NITROSODI-N-PROPYLAMINE	<10
2-CHLORONAPHTHALENE	<10	N-NITROSODIPHENYLAMINE	<10
4-CHLOROPHENYLPHENYL ETHER	<10	PHENANTHRENE	<10
CHRYSENE	<10	PYRENE	<10
DIBENZO(a,h)ANTHRACENE	<10	1,2,4-TRICHLOROBENZENE	<10
DI-N-BUTYLPHTHALATE	<10		
1,3-DICHLOROBENZENE	<10		
1,2-DICHLOROBENZENE	<10		
1,4-DICHLOROBENZENE	<10		
3,3'-DICHLOROBENZIDINE	<10		
DIETHYL PHTHALATE	<10	DATE EXTRACTED:	10/4/93
DIMETHYL PHTHALATE	<10	DATE ANALYZED:	10/17/93

RESULTS ARE IN MICROGRAMS/LITER.

<= LESS THAN, NONE DETECTED

ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P.-Lab #20044

842893845

GARDEN STATE LABORATORIES, INC.*Bacteriological and Chemical Testing*410 Hillside Avenue
Hillside, NJ 07205Telephone (908) 688-8900
Fax (908) 688-8966MATHEW KLEIN, M.S., Director
HARVEY KLEIN, M.S., Lab Supervisor**REPORT OF ANALYSIS
ACID EXTRACTABLE COMPOUNDS**TO: PASSAIC VALLEY SEWERAGE COMM
600 WILSON AVENUE

REPORT # 931001058.0

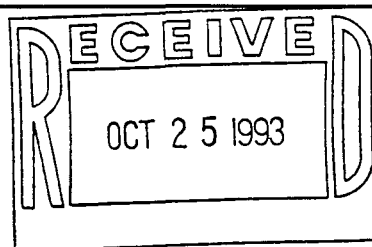
CLIENT # PAS02

DATE SUBMITTED: 10/1/93

NEWARK

NJ 07105

ATT: MR. ED RYS

SAMPLE TYPE: INDUSTRIAL LIQUID
SAMPLE ID: P.O. # 145100 1-80969
SAMPLE LOCATION:

DATE SAMPLED: 9/30/93

TIME SAMPLED:

COMPOUND	RESULT
4-CHLORO-3-METHYLPHENOL	<10
2-CHLOROPHENOL	<10
2,4-DICHLOROPHENOL	<10
2,4-DIMETHYLPHENOL	<10
2,4-DINITROPHENOL	<50
2-METHYL-4,6-DINITROPHENOL	<50
2-NITROPHENOL	<10

COMPOUND	RESULT
4-NITROPHENOL	<50
PENTACHLOROPHENOL	<50
PHENOL	<10
2,4,6-TRICHLOROPHENOL	<10
DATE EXTRACTED:	10/4/93
DATE ANALYZED:	10/17/93

TEST RESULTS ARE IN MICROGRAMS/LITER.

<=LESS THAN, NONE DETECTED.

ANALYSIS PERFORMED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY, USEPA METHOD 625.

THE LIABILITY OF GARDEN STATE LABORATORIES, INC. FOR SERVICES RENDERED SHALL IN NO EVENT EXCEED THE AMOUNT OF THE INVOICE.

Certified by U.S. Public Health Service, N.J. Dept. of Health and N.J.D.E.P.-Lab #20044

PART V - ADMINISTRATION

SECTION 501 AUTHORITY, VIOLATIONS, ETC.

- 501.1 These Rules and Regulations are adopted pursuant to N.J.S. 58:14-35 and appropriate State Laws and Regulations, Federal Statutes and Municipal Ordinances.
- 501.2 Any violation of the Rules and Regulations including the failure to pay fees, charges, or surcharges imposed, or any conditions or limitation of a permit issued pursuant thereto shall be subject to such penalties as are provided by law. Said penalties shall be in addition to any sanctions authorized under these Rules and Regulations.
- 501.3 In addition to such penalties as may be provided by law, any person violating these Rules and Regulations shall be civilly liable for such damages as may result to the PVSC as a result of said violation.
- 501.4 Notwithstanding any other provisions of these Rules and Regulations, any user who fails to comply with the Rules and Regulations shall be liable to a fine in an amount not to exceed \$50,000 per day for each day or part thereof that such violation exists. Any user who fails to submit a self-monitoring, compliance, or other report when due shall be liable to a fine not less than the amount established in Appendix C.

SECTION 502 FEES

- 502.1 (RESERVED)
- 502.2 (RESERVED)
- 502.3 Each industrial user or other user of the PVSC Treatment Works shall reimburse PVSC for those costs incurred if a compliance sample is sent to an outside laboratory for an analysis of one or more parameters which PVSC is not certified to perform. This reimbursement provision does not apply if PVSC is certified to perform the analysis but does not. This provision can be invoked no more than two times per year per parameter.
- 502.4 Each user against whom a charge is assessed, shall remit the amount due within 60 days of receipt of the notice unless specific procedures are established on a case by case basis.

DANIEL F. BECHT, ESQ.
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT M. BURKE, JR.
DOMINIC W. CUCCINELLO
RONALD W. GIACONIA
JAMES KRONE
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105

(201) 344-1800

Fax: (201) 344-2951

July 12, 1994

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

PETER G. SHERIDAN
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

Reichhold Chemical Inc.
300-400 Doremus Avenue
Newark NJ 07105
Arthur Diffenbach

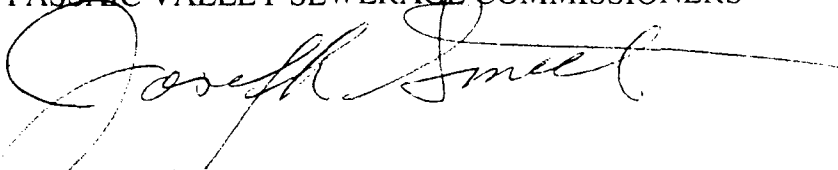
Dear Mr. Diffenbach:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any questions, please call Andy Caltagirone at (201) 817-5723.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS



Joseph Smith
Industrial Technician I

JS/mc

Attachments

842893847

MONITORING REPORT 01/01/94 THRU 03/31/94

1. *Staphylococcus aureus* (S. aureus) - 1/1/94
2. *Staphylococcus aureus* (S. aureus) - 1/1/94
3. *Staphylococcus aureus* (S. aureus) - 1/1/94
4. *Staphylococcus aureus* (S. aureus) - 1/1/94
5. *Staphylococcus aureus* (S. aureus) - 1/1/94
6. *Staphylococcus aureus* (S. aureus) - 1/1/94
7. *Staphylococcus aureus* (S. aureus) - 1/1/94
8. *Staphylococcus aureus* (S. aureus) - 1/1/94
9. *Staphylococcus aureus* (S. aureus) - 1/1/94
10. *Staphylococcus aureus* (S. aureus) - 1/1/94

1. *Staphylococcus aureus* (S. aureus) - 1/1/94
2. *Staphylococcus aureus* (S. aureus) - 1/1/94
3. *Staphylococcus aureus* (S. aureus) - 1/1/94
4. *Staphylococcus aureus* (S. aureus) - 1/1/94
5. *Staphylococcus aureus* (S. aureus) - 1/1/94
6. *Staphylococcus aureus* (S. aureus) - 1/1/94
7. *Staphylococcus aureus* (S. aureus) - 1/1/94
8. *Staphylococcus aureus* (S. aureus) - 1/1/94
9. *Staphylococcus aureus* (S. aureus) - 1/1/94
10. *Staphylococcus aureus* (S. aureus) - 1/1/94

1/1/94

842893848

DANIEL F. BECHT, ESQ.
CHAIRMAN

THOMAS J. CIFELLI
VICE CHAIRMAN

ROBERT M. BURKE, JR.
DOMINIC W. CUCCINELLO
RONALD W. GIACONIA
JAMES KRONE
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951
September 26, 1994

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

PETER G. SHERIDAN
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

Arthur Diffenbach
Reichhold Chemical Inc.
300-400 Doremus Avenue
Newark NJ 07105

Dear Mr. Diffenbach:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any questions, please call Andy Caltagirone at (201) 817-5723.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

William Cifelli
Industrial Technician II

842893850



Mar 21, 1991

Mr. Mike Bani
Reichhold Chemicals
Plant #013
400 Doramus Ave.
Newark, NJ 07102

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
4/23:

Sample No:	0570	Analysis
Source:	<u>PVSC Discharge</u>	Method

Sample Date: 4/21-4/23

POB-5, mg/l	3590	307 *
Total Suspended Solids, mg/l	16	2090*
pH, su	7.68	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

QC Check: *J*
SEN/HF

Sharon E. Naples
Lab Manager

842893851

Townley

RESEARCH AND CONSULTING, INC.

1750 W. FRONT STREET, PLAINFIELD, N. J. 07063 • (201) 757-1137

CHAIN OF CUSTODY

0570

842893852

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS															
Proj. No.		Project Name					<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DOD TSS PH</div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>															
Samplers: (Signature) <i>Thomas J. Roman</i>																						
Sta. No.	Date	Time	Comp.	Grab	Station Location																	Remarks
	4/24/91 4/25/91	8:00 8:00	✓		Wastewater	2	✓															
Relinquished by: (Signature) <i>Thomas J. Roman</i>			Date/Time 4/25/91 9:30		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time 4/25/91 2:50		Received by: (Signature) <i>Debbie Smith</i>									
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)									
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks												



4/12/11

Mr. Mike Bani
Boothhold Chemicals
Plant #13
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
4/11:

Sample No:	0102	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 4-10-4/11

BOD-5, mg/l	1760	567 *
Total Suspended Solids, mg/l	130	2690*
pH, su	5.82	130.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

QC Check: *JS*
SEN/df

Sharon E. Naples
Lab Manager

842893853

CHAIN OF CUSTODY

842893854

Company Name Reichhold					No. of con- tainers	TESTS											
Proj. No.		Project Name				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD, TSS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> </div>											
Samplers (Signature) <i>Thomas J. Simon</i>																	
Sta. No.	Date	Time	Comp.	Grab	Station Location	Remarks											
	4/10/91	8:20	✓		wastewater	2	✓	✓									
Relinquished by: (Signature) <i>Thomas J. Simon</i>			Date/Time 4/11/91 10:15		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time 4/11/91 2:30		Received by: (Signature) <i>J. Meyer</i>				
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)				
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks							



June 13, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
5/9/91:

Sample No:	1213	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 5/8 - 5/9/91

BOD-5, mg/l	15,990	507 *
Total Suspended Solids, mg/l	530	209C*
pH, su	5.48	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

QC Check: SD
SEN:wo

Sharon E. Naples
Lab Manager

842893855



• Fax (908) 757-0335

1213

CHAIN OF CUSTODY

Company Name Reichhold						No. of con- tainers	TESTS																
Proj. No.		Project Name					<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 5px;">BOD TSS PH</div> <div style="flex-grow: 1; border: 1px solid black; position: relative;"> <!-- Empty grid for tests --> </div> </div>																
Samplers: (Signature) Client																							
Sta. No.	Date	Time	Comp.	Grab	Station Location																	Remarks	
	5/8/91 7/9/91	8:00 8:00	✓		Wastewater	2	✓																
Relinquished by: (Signature) Client			Date/Time 5/9/91 12:30		Received by: (Signature) Bruce Moody			Relinquished by: (Signature) Bruce Moody			Date/Time 5/9/91 2:45		Received by: (Signature) J. Hays										
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)										
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks													

842893856



June 13, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
5/23/91:

Sample No:	1752	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 5/22 -5/23/91

BOD-5, mg/l	9610	507 *
Total Suspended Solids, mg/l	450	209C*
pH, su	5.69	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

Sharon E. Naples
Lab Manager

QC Check: SD
SEN:wo

842893857

SINCE 1980

[illegible]

842893858



July 1, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
6/6/91:

Sample No:	2318	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 6/5 - 6/6/91

BOD-5, mg/l	10.900	507 *
Total Suspended Solids, mg/l	16	209C*
pH, su	7.14	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Shela Duma

QC Check: *K*
SEN:wo

for Sharon E. Naples
Lab Manager

842893859



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

SINCE 1980

1750 W. Front Street, Plainfield, N.J. 07063 • (908) 377-3337 • Fax (908) 757-0335

2519

CHAIN OF CUSTODY

Company Name Reichhold					No. of con- tainers	TESTS											
Proj. No.		Project Name				<div>BOD PH TSS</div>											
Samplers: (Signature) <i>Thomas Roman</i>																	
Sta. No.	Date	Time	Comp.	Grab	Station Location												Remarks
	6/5/91 6/6/91	8:00 8:00	X		PWSC Discharge	2	✓										
Relinquished by: (Signature) <i>Thomas Roman</i>			Date/Time 6/6/91 11:40		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time 6/6/91 2:30		Received by: (Signature) <i>Alley</i>				
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)				
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)				Date/Time		Remarks						

842893860



July 1, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
6/20/91:

Sample No:	2896	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 6/19 - 6/20/91

BOD-5, mg/l	18.060	507 *
Total Suspended Solids, mg/l	410	209C*
pH, su	5.50	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

QC Check: *X*
SEN:wo

for Sharon E. Naples
Lab Manager

842893861



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S										
Proj. No.		Project Name					<i>BOD TSS PH</i>										
Samplers: (Signature) <i>Thomas Roman</i>																	
Sta. No.	Date	Time	Comp.	Grab	Station Location												Remarks
	<i>6/19/99</i>	<i>8:00</i>	<i>X</i>		<i>Wastewater</i>	<i>2</i>	<i>✓</i>										
Relinquished by: (Signature) <i>Thomas Roman</i>						Date/Time <i>6/24/11:00</i>	Received by: (Signature) <i>Debra Moody</i>				Relinquished by: (Signature) <i>Debra Moody</i>				Date/Time <i>6/24/3:10</i>	Received by: (Signature) <i>[Signature]</i>	
Relinquished by: (Signature)						Date/Time	Received by: (Signature)				Relinquished by: (Signature)				Date/Time	Received by: (Signature)	
Relinquished by: (Signature)						Date/Time	Received for Laboratory by: (Signature)				Date/Time		Remarks				

842893862



Aug. 2, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
7/18:

Sample No:	3819	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 7/17 - 7/18


BOD-5, mg/l	12,140	507 *
Total Suspended Solids, mg/l	160	209C*
pH, su	5.55	150.1**


* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,


Sharon E. Naples
Lab Manager

QC Check: 
SEN/df

842893863



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S									
Proj. No.		Project Name					<i>BOD, TSS, PH</i>									Remarks
Samplers: (Signature) <i>Client</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location											
	<i>7/17/18</i>	<i>8:00 8:00</i>	<i>✓</i>		<i>Effluent</i>	<i>2</i>	<i>✓</i>									
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>7/18/18 9:00</i>		Received by: (Signature) <i>J. Paul</i>		Relinquished by: (Signature) <i>J. Paul</i>			Date/Time <i>7/18/18 9:30</i>		Received by: (Signature) <i>J. Meyer</i>				
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Relinquished by: (Signature)			Date/Time		Received by: (Signature)				
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks						

842893864



Aug. 2, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
7/3:

Sample No:	3323	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 7/2 - 7/3

BOD-5, mg/l	2760	507 *
Total Suspended Solids, mg/l	240	209C*
pH, su	6.33	150.1**

* 16th Edition "Standard Methods"
** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

Sharon E. Naples
Lab Manager

QC Check: *K*
SEN/df

842893865



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 • (908) 757-1137 • Fax (908) 757-0335

3323

CHAIN OF CUSTODY

842893866

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS						Remarks	
Proj. No.	Project Name						<i>DOO 755 PH</i>							
Samplers: (Signature) <i>Thomas J. Tomlin</i>														
Sta. No.	Date	Time	Comp.	Grab	Station Location									
	<i>7/2/91</i>	<i>8:00</i>												
	<i>7/3/91</i>	<i>8:45 AM</i>	<input checked="" type="checkbox"/>		<i>was-lewater</i>	<i>2</i>	<input checked="" type="checkbox"/>							
Relinquished by: (Signature) <i>Thomas J. Tomlin</i>			Date/Time <i>7/3/91 10:40</i>		Received by: (Signature) <i>Brian Moody</i>			Relinquished by: (Signature) <i>Brian Moody</i>			Date/Time <i>7/3/91 2:10</i>		Received by: (Signature) <i>G. Meyer</i>	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks				



Aug. 23, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one sample, picked up by us on 8/9/91:

Results Sample No: 4699
generally in mg/l Source: Albert Ave.

Petroleum Hydrocarbons	<0.05 nd
Oil & Grease	<0.05 nd
Total Solids, %	0.016
Total Suspended Solids	1.2
BOD-5	3.0
pH, su	7.4
Total Mineral Solids, % of Total Solids	87
Mineral Suspended Solids	<1.0 nd
COD	4
Ammonia-N	<0.1 nd
TOC	3.9

Note: nd = none detected

Very truly yours,

Sharon E. Naples

Sharon E. Naples
Lab Manager

QC Check: SD
SEN/df



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S								Remarks	
Proj. No.		Project Name <i>ALBERT AVE PERMIT RENEWAL ANALYSIS.</i>					TOC	COD	Ammonia	Nitrite	Nitrate	TS	TSS	BOD		PH
Samplers: (Signature) <i>Mike Bessi.</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location											
<i>ALBERT</i>	<i>8/8/91</i>	<i>14:15</i>		<input checked="" type="checkbox"/>												<i>PH = 7.4</i>
	<i>8/8/91</i>	<i>14:15</i>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>										<i>SEND</i>
	<i>8/8/91</i>	<i>14:15</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>										<i>INVOICES</i>
	<i>8/8/91</i>	<i>14:15</i>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>							<i>& RESULTS</i>
	<i>8/8/91</i>	<i>14:15</i>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>						<i>TO Mike</i>
<input checked="" type="checkbox"/>	<i>8/8/91</i>	<i>14:15</i>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>					<i>Bessi -</i>
																<i>Reichhold</i>
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>8/9/91 11:15</i>		Received by: (Signature) <i>Theresa Moody</i>			Relinquished by: (Signature) <i>Theresa Moody</i>			Date/Time <i>8/9/91 2:30</i>		Received by: (Signature) <i>B. Bagheri</i>			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)			
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)				Date/Time		Remarks					

842893868



Sept. 5, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
8/1:

Sample No:	4340	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 7/31 - 8/1

BOD-5, mg/l	3380	507 *
Total Suspended Solids, mg/l	39	209C*
pH, su	7.5	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

QC Check: SD
SEN/df

Sharon E. Naples
Lab Manager

842893869



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 • (908) 757-1137 • Fax (908) 757-0335

CHAIN OF CUSTODY 4340

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S												
Proj. No.		Project Name					<i>BOD TSS</i> <i>DH</i>												
Samplers: (Signature) <i>Client</i>																			
Sta. No.	Date	Time	Comp.	Grab	Station Location												Remarks		
	<i>7/31/91</i> <i>8/1/91</i>	<i>8:00</i> <i>8:00</i>	<input checked="" type="checkbox"/>		<i>Wastewater</i>	<i>2</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>8/1/91 10:35</i>		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time <i>8/1/91 2:15</i>		Received by: (Signature) <i>[Signature]</i>						
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)						
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks									

842893870



Sept. 5, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
8/15:

Sample No:	5004	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 8/14 - 8/15

BOD-5, mg/l	33,340	507 *
Total Suspended Solids, mg/l	380	209C*
pH, su	5.5	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon E. Naples

QC Check: SD
SEN/df

Sharon E. Naples
Lab Manager

842893871

CHAIN OF CUSTODY

[illegible]

842893872



TOWNLEY GRAM

Sept. 9, 1991

CHANGES

In our increasing efforts to serve our Customers better, Townley Laboratories is pleased to announce the addition of Sheila Durma to our staff as Assistant Lab Manager.

Sheila will assist Sharon Naples in running the lab and preparing reports. She has a degree from Cook College and has been working in laboratories since 1983. Her most recent job was as a Senior Lab Tech for a municipal waste water treatment plant.

Should you have any questions, please feel free to call.

TOWNLEY LABORATORIES, INC. PLAINFIELD & LEBANON, NJ

908-757-1137

842893873



October 2, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
9/5/91:

Sample No:	5774	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 9/4 - 9/5/91

BOD-5, mg/l	20,190	507 *
Total Suspended Solids, mg/l	450	209C*
pH, su	5.71	150.1**


* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: 
SD:wo

Sheila Durma
Ass't Lab Manager

842893874

CHAIN OF CUSTODY

[illegible]

842893875



October 2, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
9/19/91:

Sample No:	6372	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 9/18 - 9/19/91

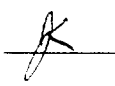
BOD-5, mg/l	10,750	507 *
Total Suspended Solids, mg/l	920	209C*
pH, su	6.06	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

QC Check: 
SD:wo

Sheila Durma
Ass't Lab Manager



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS													
Proj. No.		Project Name					<i>BOD TSS PH</i>													
Samplers: (Signature) <i>Client</i>																				
Sta. No.	Date	Time	Comp.	Grab	Station Location															Remarks
	<i>9/12/91</i> <i>9/14/91</i>	<i>8:00</i> <i>8:00</i>	<i>X</i>		<i>Wastewater</i>	<i>1</i>	<i>✓</i>													
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>9/14/91 10:15</i>		Received by: (Signature) <i>Barbara Moody</i>			Relinquished by: (Signature) <i>Barbara Moody</i>			Date/Time <i>9/14/91 2:00</i>		Received by: (Signature) <i>Barbara Moody</i>							
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)							
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks										

842893877



October 4, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one sample, picked up by us on 9/19/91:

Sample No: 6438
Source: PVSC
46 Albert Ave.
Newark, NJ

Phenol, mg/l

<0.05 none detected

QC Check: JK
SD:wo

Very truly yours,

Sheila Durma

Sheila Durma
Ass't Lab Manager

842893878



Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S										
Proj. No.		Project Name <i>ALBERT AVENUE</i>					<i>TOC</i> <i>COD Ammonia</i> <i>AsH₂O₄</i> <i>TS, TSS</i> <i>TMS, MSS</i> <i>BOD, PH</i> <i>Microbial</i>										
Samplers: (Signature) <i>Nile Bari</i>																	
Sta. No.	Date	Time	Comp.	Grab	Station Location												
<i>ALBERT</i>	<i>9/18/91</i>	<i>16.00</i>		<i>X</i>		<i>1</i>											Remarks <i>grab sample</i>
Relinquished by: (Signature) <i>C. Went</i>			Date/Time <i>9/19/91 10:15</i>		Received by: (Signature) <i>Bruce Morley</i>		Relinquished by: (Signature) <i>Bruce Morley</i>		Date/Time <i>9/19/91 2:00</i>		Received by: (Signature) <i>Bruce Morley</i>						
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)						
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks							

842893879



Oct. 10, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Re: Albert Ave. Trucking
Operation-New Permit

Gentlemen:

Herewith our findings for the analysis of one sample, picked up by us on 9/19/91:

Results generally Sample No: 6436
in ppm Source: Trucking Operation

Total Organic Carbon	6960
COD	14,740
Ammonia-N	<0.1 nd
Petroleum Hydrocarbons	120
Oil & Grease	431
Total Solids, %	1.8
Total Suspended Solids	450
Total Mineral Solids, % of Total Solids	78
Mineral Suspended Solids	17
BOD-5	10,770
pH, su	6.31
Phenol	0.32

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: X
SD/df

Sheila Durma
Ass't Lab Manager

842893880



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S								Remarks
Proj. No.	Project Name <i>New ALBERT AVE PERMIT TRUCKING operation</i>						TOC	COD Ammonia	Petroleum	TS, TSS	TMS, MSS	BOD	pH		
Samplers: (Signature) <i>Mike Baxi</i>															
Sta. No.	Date	Time	Comp.	Grab	Station Location										
<i>TRUCKING operation</i>	<i>9/18/94</i>	<i>15:45</i>		✓		1			✓						<i>SEND</i>
		<i>15:45</i>		✓		2	✓								<i>INVOICE &</i>
		<i>15:45</i>		✓		1	✓								<i>Results to</i>
		<i>15:45</i>		✓		1			✓						<i>Mike Baxi.</i>
		<i>15:45</i>		✓		1			✓						
		<i>15:45</i>		✓		1				✓					<i>Reichhold</i>
	✓	<i>15:45</i>		✓		1					✓				<i>Clear</i>
✓	✓	<i>15:45</i>		✓											
Relinquished by: (Signature) <i>Client</i>						Date/Time <i>9/19/94 10:15</i>	Received by: (Signature) <i>Diana Moody</i>			Relinquished by: (Signature) <i>Diana Moody</i>			Date/Time <i>9/19/94 2:00</i>	Received by: (Signature) <i>[Signature]</i>	
Relinquished by: (Signature)						Date/Time	Received by: (Signature)			Relinquished by: (Signature)			Date/Time	Received by: (Signature)	
Relinquished by: (Signature)						Date/Time	Received for Laboratory by: (Signature)			Date/Time		Remarks			

842893881



Nov. 4, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
10/3:

Sample No:	6953	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 10/2 - 10/3

BOD-5, mg/l	11,810	507 *
Total Suspended Solids, mg/l	100	209C*
pH, su	5.56	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check:
SD/df

Sheila Durma
Ass't Lab Manager

CHAIN OF CUSTODY

Company Name <i>Reichhold</i>					No. of con- tainers	T E S T S														
Proj. No.		Project Name				<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 5px;">1300 TSS PH</div> <div style="flex-grow: 1; border: 1px solid black; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div>														
Samplers: (Signature) <i>Client</i>																				
Sta. No.	Date	Time	Comp.	Grab	Station Location	Remarks														
	10/2/91 10/3/91	8:00 8:00	X		wastewater	1														
Relinquished by: (Signature) <i>Client</i>			Date/Time 10/3/91 11:30		Received by: (Signature) <i>Rena Moody</i>			Relinquished by: (Signature) <i>Rena Moody</i>			Date/Time 10/3/91 3:00		Received by: (Signature) <i>[Signature]</i>							
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)							
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks										

842893883



Nov. 4, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
10/17:

Sample No:	7619	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 10/16 - 10/17

BOD-5, mg/l	20,450	507 *
Total Suspended Solids, mg/l	340	209C*
pH, su	6.56	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: JK
SD/df

Sheila Durma
Ass't Lab Manager



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S										
Proj. No.		Project Name					<div>BOD TSS PH</div>										
Samplers: (Signature) <i>Thomas Vroman</i>																	
Sta. No.	Date	Time	Comp.	Grab	Station Location												Remarks
	10/16/91	0800	X		wastewater	2											
	10/17/91	0800															
Relinquished by: (Signature) <i>Thomas Vroman</i>			Date/Time 10/16/91 0940		Received by: (Signature) <i>Brian Moody</i>			Relinquished by: (Signature) <i>Brian Moody</i>			Date/Time 10/17/91 2:20		Received by: (Signature) <i>[Signature]</i>				
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)				
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks							

842893885



COMPANY: REICHHOLD Chemicals

ATTN: MIKE BAXI

FAX NO: 201-817-9173

OF PAGES INCLUDING TRANSMITTAL: 3

FROM: JANE PUZA

DATE: 12-18-91

NOTE: _____

IF TRANSMISSION IS UNCLEAR, PLEASE CALL 908-757-1137



Dec. 10, 1991

Mr. Mike Baxi
 Reichhold Chemicals
 Plant #013
 400 Doremus Ave.
 Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 11/27/91:

Sample No:	9216	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 11/26-27/91

BOD-5, mg/l	9840	307 *
Total Suspended Solids, mg/l	33	2090*
pH, su	7.14	150.1*

* 16th Edition "Standard Methods"
 ** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check:
 SD/ph

Sheila Durma
 Ass't Lab Manager



Dec. 10, 1991

Mr. Mike Baxi
 Reichhold Chemicals
 Plant #013
 400 Doremus Ave.
 Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 11/14/91:

Sample No:	8577	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 11/14/91


BOD-5, mg/l	560	507 *
Total Suspended Solids, mg/l	12	2090*
pH, su	6.04	150.1**

* 16th Edition "Standard Methods"
 ** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: 
 SD/ph

Sheila Durma
 Ass't Lab Manager



Dec. 10, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07103

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
11/27/91:

Sample No:	9216	Analysis
Source:	<u>EVSC Discharge</u>	<u>Method</u>

Sample Date: 11/26-27/91

BOD-5, mg/l	9840	507 *
Total Suspended Solids, mg/l	33	2090*
pH, su	7.14	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check:
SD/ph

Sheila Durma
Ass't Lab Manager



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 • (908) 757-1000 • Fax (908) 757-0335

0216

CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS											
Proj. No.		Project Name					BOD	TSS	PH								Remarks	
Samplers: (Signature) <i>Thomas Roman</i>																		
Sta. No.	Date	Time	Comp.	Grab	Station Location													
	11/26/91	8:00				2												
	11/27/91	8:00	X		PWSC Discharge													
Relinquished by: (Signature) <i>Thomas Roman</i>			Date/Time 11/27/91 10:45			Received by: (Signature) <i>Brian Moody</i>			Relinquished by: (Signature) <i>Brian Moody</i>			Date/Time 11/27/91 1:50			Received by: (Signature) <i>Bill H. [unclear]</i>			
Relinquished by: (Signature)			Date/Time			Received by: (Signature)			Relinquished by: (Signature)			Date/Time			Received by: (Signature)			
Relinquished by: (Signature)			Date/Time			Received for Laboratory by: (Signature)			Date/Time			Remarks						

842893890



Dec. 10, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 11/14/91:

Sample No:	8577	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 11/14/91

BOD-5, mg/l	560	507 *
Total Suspended Solids, mg/l	12	209C*
pH, su	6.04	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: *K*
SD/ph

Sheila Durma
Ass't Lab Manager



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 • Tel: 757-757-0335 • Fax: (908) 757-0335

857

CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS													
Proj. No.		Project Name					<div><i>BOO TSS PH</i></div>													
Samplers: (Signature) <i>Thomas J. Moran</i>																				
Sta. No.	Date	Time	Comp.	Grab	Station Location												Remarks			
	11/14/91	8:00	✓		wastewater	2	✓													
Relinquished by: (Signature) <i>Thomas J. Moran</i>			Date/Time <i>11/14/91 11:30</i>		Received by: (Signature) <i>Brian Moody</i>			Relinquished by: (Signature) <i>Brian Moody</i>			Date/Time <i>11/14/91 2:50</i>		Received by: (Signature) <i>J. Hayes</i>							
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)							
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks										

842893892



Dec. 19, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of water,
sampled by your personnel and picked up by us on 12/3:

Sample No: 9297
Source: Trucking Water

Sample Date: 12/2

TSS, mg/l	270
BOD, mg/l	6850
Petr. HC, mg/l	8.9
Oil & Grease, mg/l	29
pH, su	6.52

Very truly yours,

Sheila Durma

QC Check: *JD*
SD/df

Sheila Durma
Ass't Lab Manager



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S													
Proj. No.		Project Name					<i>TSS, 800, PH</i> <i>PETHC, O+G.</i>													
Samplers: (Signature) <i>X</i>																				
Sta. No.	Date	Time	Comp.	Grab	Station Location															
	<i>12/2/91</i>	<i>4:45</i>		<i>✓</i>	<i>Trucking water</i>	<i>1</i>	<i>✓</i>													
	<i>12/2/91</i>	<i>4:45</i>		<i>✓</i>	<i>Trucking water</i>	<i>1</i>	<i>✓</i>													
Relinquished by: (Signature) <i>X</i>			Date/Time <i>12/3/91 8:45</i>		Received by: (Signature) <i>B. Bagheri</i>			Relinquished by: (Signature)			Date/Time		Received by: (Signature)							
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)							
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks										

842893894



COMPANY: Reichhold

ATTN: Mike Baxi

FAX NO: 1-201-817-9173

OF PAGES INCLUDING TRANSMITTAL: 2

FROM: D. Yang

DATE: 12/3

NOTE: Please sign Chain of Custody by X's

IF TRANSMISSION IS UNCLEAR, PLEASE CALL 908-767-1137

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

fax - 908-757-0335

REICHHOLD

TO Sheila Dyrma FROM Mike Baxi

DATE 12/03/91 TIME 1:00 PM

NO. OF PAGES(including cover sheet) 2

ADDITIONAL MESSAGE:

Enclosed please find the chain of
custody form for the sample picked up
By B. Bapheri.

Mike Baxi -



DOWNLEY
LABORATORIES, INC.

ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 (908) 1137 • Fax (908) 757-0335

CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S								
Proj. No.		Project Name					<i>TSS, BOD, PH PETHC, ORG.</i>								
Samplers: (Signature) <i>* Mike Baxi</i>															
Sta. No.	Date	Time	Comp.	Grab	Station Location		Remarks								
	<i>12/2/91</i>	<i>4:45</i>		<i>✓</i>	<i>Trucking water</i>	<i>1</i>	<i>✓</i>								
	<i>12/2/91</i>	<i>4:45</i>		<i>✓</i>	<i>Trucking water</i>	<i>1</i>	<i>✓</i>								
Relinquished by: (Signature) <i>* Mike BAXI</i>			Date/Time <i>12/3/91 8:45</i>		Received by: (Signature) <i>B. Baxi</i>			Relinquished by: (Signature)			Date/Time		Received by: (Signature)		
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)		
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks					

842893897



Dec. 19, 1991

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of two samples, sampled by us
on 11/21/91:

	Sample No: 8937	8938
	Source: Old Loading Dock	Old Loading Dock
	<u>12 1/2 Standing Water</u>	<u>#14 Standing Water</u>
Volatile Organics	/- - - - - See Attached - - - - - \	
Acid/Base/Neutrals	/- - - - - See Attached - - - - - \	
Phenols, ppm	<0.5 nd	<0.5 nd

Note: nd = none detected

Very truly yours,

Sheila Durma

Sheila Durma
Ass't Lab Manager

QC Check: *JK*
SD/df *JK*

Bridgeport Environmental
VOLATILE ORGANIC ANALYSIS DATA

SE NUMBER		MATRIX	Water
SAMPLE NUMBER	F6933	DILUTION FACTOR	1000.00
CLIENT ID	8437	QA BATCH	
DATA FILE	D3163	DATE ANALYZED	12/03/91

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
Acrylonitrile	ND	5000	o-Xylene	ND	5000
Benzene	ND	5000	Toluene	180000	5000
Bromodichloromethane	ND	5000	1,1,1-Trichloroethane	ND	5000
Bromoform	ND	5000	1,1,2-Trichloroethane	ND	5000
Carbon Tetrachloride	ND	5000	Trichloroethene	ND	5000
Chlorobenzene	ND	5000	Vinyl Chloride	ND	5000
Chloroform	ND	5000	Acrolein	ND	50000
Dibromochloromethane	ND	5000	Chloroethane	ND	5000
1,1-Dichloroethane	ND	5000	2-Chloroethylvinylether	ND	10000
1,2-Dichloroethane	ND	5000	1,3-Dichloropropene	ND	5000
1,1-Dichloroethene	ND	5000	Bromomethane	ND	10000
1,2-Dichloropropane	ND	5000	Chloromethane	ND	10000
Benzene	ND	5000	1,2-Dichloroethene(trans)	ND	5000
Methylene Chloride	10000 B	5000	m-Dichlorobenzene	ND	5000
1,1,2-Tetrachloroethane	ND	5000	p-Dichlorobenzene	ND	5000
Tetrachloroethene	ND	5000	o-Dichlorobenzene	ND	5000
m,p-Xylenes	ND	5000			

<u>SURROGATE COMPOUNDS</u>	<u>% RECOVERY</u>	<u>LIMITS</u>	<u>STATUS</u>
1,2-Dichloroethane-d4	98.9	76 - 114	OK
Toluene-d8	105	88 - 110	OK
Bromofluorobenzene	82.2	86 - 115	

(J) Indicates detected below MDL
 (B) Indicates also present in blank
 (ND) Indicates compound not detected

Bridgeport Environmental
VOLATILE ORGANIC ANALYSIS DATA

JOB NUMBER _____
SAMPLE NUMBER F6934
CLIENT ID 8938
DATA FILE 03164

MATRIX Water
DILUTION FACTOR 1000.00
QA BATCH _____
DATE ANALYZED 12/03/91

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
Acrylonitrile	ND	50000	o-Xylene	40000	5000
Benzene	ND	5000	Toluene	4700 J	5000
Bromodichloromethane	ND	5000	1,1,1-Trichloroethane	ND	5000
Bromoform	ND	5000	1,1,2-Trichloroethane	ND	5000
Carbon Tetrachloride	ND	5000	Trichloroethene	ND	5000
Chlorobenzene	ND	5000	Vinyl Chloride	ND	5000
Chloroform	ND	5000	Acrolein	ND	50000
Dibromochloromethane	ND	5000	Chloroethane	ND	5000
1,1-Dichloroethane	ND	5000	2-Chloroethylvinylether	ND	10000
1,2-Dichloroethane	ND	5000	1,3-Dichloropropene	ND	5000
1,1-Dichloroethene	ND	5000	Bromomethane	ND	10000
1,2-Dichloropropane	ND	5000	Chloromethane	ND	10000
Chlorobenzene	22000	5000	1,2-Dichloroethene(trans)	ND	5000
ethylene Chloride	6700 B	5000	m-Dichlorobenzene	ND	5000
1,2,2-Tetrachloroethane	ND	5000	p-Dichlorobenzene	ND	5000
Tetrachloroethene	ND	5000	o-Dichlorobenzene	ND	5000
m&p-Xylenes	72000	5000			

<u>SURROGATE COMPOUNDS</u>	<u>% RECOVERY</u>	<u>LIMITS</u>	<u>STATUS</u>
1,2-Dichloroethane-d4	98.0	76 - 114	OK
Toluene-d8	101	88 - 110	OK
Bromofluorobenzene	98.9	86 - 115	OK

(J) Indicates detected below MDL

(B) Indicates also present in blank

(ND) Indicates compound not detected



SEMIVOLATILE ORGANICS DATA SHEET

BASE/NEUTRALS

USEPA METHOD 625

Sample No: 8937 Matrix: Water
Source: Old Loading Dock-12.5

Level: Low Extraction: Sep. Funnel pH: 6.50
Spl Size: 100 ml % Solids: N/A Dil. Factor: 200.0
Date Smpl: 11/21 Date Extr: 11/22 Date Anal: 12/2
Units: ug/l

COMPOUND	MDL	AMOUNT	COMPOUND	MDL	AMOUNT
Acenaphthene	496.0	U	1,4-Dichlorobenzene	244.0	U
Acenaphthylene	208.0	U	3,3'-Dichlorobenzidine	32.0	U
Aniline	222.0	U	Diethyl phthalate	2700.0	U
Anthracene	258.0	U	Dimethyl phthalate	3800.0	U
Azobenzene	200.0	U	2,4-Dinitrotoluene	62.0	U
Benzidine	370.0	U	2,6-Dinitrotoluene	264.0	U
Benzo(a)anthracene	120.0	U	Di-n-octyl phthalate	490.0	U
Benzo(b)fluoranthene	170.0	U	Fluoranthene	106.0	U
Benzo(k)fluoranthene	238.0	U	Fluorene	214.0	U
Benzoic Acid	70.0	U	Hexachlorobenzene	126.0	U
Benzo(a)pyrene	176.0	U	Hexachlorobutadiene	188.0	U
Benzo(ghi)perylene	112.0	U	Hexachlorocyclopentadiene	76.0	U
Benzyl Alcohol	272.0	U	Hexachloroethane	220.0	U
Bis(2-chloroethyl)ether	164.0	U	Indeno(1,2,3-cd)pyrene	32.0	U
Bis(2-chloroethoxy)methane	188.0	U	Isophorone	208.0	U
Bis(2-chloroisopropyl)ether	164.0	U	2-Methylnaphthalene	226.0	1951.5
Bis(2-ethylhexyl)phthalate	170.0	U	Napthalene	214.0	3320.8
4-Bromophenylphenylether	94.0	U	2-Nitroaniline	176.0	U
Butylbenzylphthalate	200.0	U	3-Nitroaniline	124.0	U
2-Chloronaphthalene	150.0	U	4-Nitroaniline	22.0	U
4-Chlorophenylphenylether	170.0	U	Nitrobenzene	138.0	U
Chrysene	126.0	U	N-nitrosodimethylamine	38.0	U
Dibenzo(a,h)anthracene	50.0	U	N-nitrosodiphenylamine	176.0	U
Dibenzofuran	200.0	U	N-nitrosodi-n-propylamine	176.0	U
Di-n-butylphthalate	452.0	U	Phenanthrene	156.0	U
1,2-Dichlorobenzene	144.0	U	Pyrene	194.0	U
1,3-Dichlorobenzene	176.0	U	1,2,4-Trichlorobenzene	176.0	U

NOTE: MDL = Method Detection Limit

If the result is equal to or greater than the MDL, the value is reported

U = compound analyzed for but not detected

J = estimated value

B = compound also found in Lab Blank

SEMIVOLATILE ORGANICS DATA SHEET

ACID EXTRACTABLES

USEPA METHOD 625

Sample No: 8937 Matrix: Water
Source: Old Loading Dock-12.5

Level:	Low	Extraction:	Sep. Funnel	pH:	6.50
Spl Size:	100 ml	% Solids:	N/A	Dil. Factor:	200.0
Date Smpl:	11/21	Date Extr:	11/22	Date Anal:	12/2
Units:	ug/l				

COMPOUND	MDL	AMOUNT	COMPOUND	MDL	AMOUNT
4-Chloro-3-methylphenol	150.0	U	4-Methylphenol	564.0	U
2-Chlorophenol	132.0	U	2-Nitrophenol	138.0	U
2,4-Dichlorophenol	120.0	U	4-Nitrophenol	62.0	U
2,4-Dimethylphenol	276.0	U	Pentachlorophenol	76.0	U
4,6-Dinitro-2-methylphenol	200.0	U	Phenol	226.0	U
2,4-Dinitrophenol	18.0	U	2,4,5-Trichlorophenol	174.0	U
2-methyl-4,6-dinitrophenol	100.0	U	2,4,6-Trichlorophenol	126.0	U
2-Methylphenol	264.0	U			

NOTE: MDL = Method Detection Limit

If the result is equal to or greater than the MDL, the value is reported

U = compound analyzed for but not detected

J = estimated value

B = compound also found in Lab Blank

NJDEP Certification # 20071



SEMIVOLATILE ORGANICS DATA SHEET

ACID EXTRACTABLES

USEPA METHOD 625

Sample No: 8938 Matrix: Water
Source: Old Loading Dock-14

Level: Low Extraction: Sep. Funnel pH: 7.00
Spl Size: 100 ml % Solids: N/A Dil. Factor: 600.0
Date Smpl: 11/21 Date Extr: 11/22 Date Anal: 12/2
Units: ug/l

COMPOUND	MDL	AMOUNT	COMPOUND	MDL	AMOUNT
4-Chloro-3-methylphenol	450.0	U	4-Methylphenol	1692.0	U
2-Chlorophenol	396.0	U	2-Nitrophenol	414.0	U
2,4-Dichlorophenol	360.0	U	4-Nitrophenol	186.0	U
2,4-Dimethylphenol	828.0	U	Pentachlorophenol	228.0	U
4,6-Dinitro-2-methylphenol	600.0	U	Phenol	678.0	U
2,4-Dinitrophenol	54.0	U	2,4,5-Trichlorophenol	522.0	U
2-methyl-4,6-dinitrophenol	300.0	U	2,4,6-Trichlorophenol	378.0	U
2-Methylphenol	792.0	U			

NOTE: MDL = Method Detection Limit

If the result is equal to or greater than the MDL, the value is reported

U = compound analyzed for but not detected

J = estimated value

B = compound also found in Lab Blank

NJDEP Certification # 20071



SEMIVOLATILE ORGANICS DATA SHEET

BASE/NEUTRALS

USEPA METHOD 625

Sample No: 8938

Matrix: Water

Source: Old Loading Dock-14

Level: Low	Extraction: Sep. Funnel	pH: 7.00
Spl Size: 100 ml	% Solids: N/A	Dil. Factor: 600.0
Date Smpl: 11/21	Date Extr: 11/22	Date Anal: 12/2
Units: ug/l		

COMPOUND	MDL	AMOUNT	COMPOUND	MDL	AMOUNT
Acenaphthene	1488.0	1369.8	1,4-Dichlorobenzene	732.0	U
Acenaphthylene	624.0	U	3,3'-Dichlorobenzidine	96.0	U
Aniline	666.0	U	Diethyl phthalate	8100.0	U
Anthracene	774.0	U	Dimethyl phthalate	11400.0	U
Azobenzene	600.0	U	2,4-Dinitrotoluene	186.0	U
Benzidine	1110.0	U	2,6-Dinitrotoluene	792.0	U
Benzo(a)anthracene	360.0	U	Di-n-octyl phthalate	1470.0	U
Benzo(b)fluoranthene	510.0	U	Fluoranthene	318.0	U
Benzo(k)fluoranthene	714.0	U	Fluorene	642.0	U
Benzoic Acid	210.0	U	Hexachlorobenzene	378.0	U
Benzo(a)pyrene	528.0	U	Hexachlorobutadiene	564.0	U
Benzo(ghi)perylene	336.0	U	Hexachlorocyclopentadiene	228.0	U
Benzyl Alcohol	816.0	U	Hexachloroethane	660.0	U
Bis(2-chloroethyl)ether	492.0	U	Indeno(1,2,3-cd)pyrene	96.0	U
Bis(2-chloroethoxy)methane	564.0	U	Isophorone	624.0	U
Bis(2-chloroisopropyl)ether	492.0	U	2-Methylnaphthalene	678.0	2668.4
Bis(2-ethylhexyl)phthalate	510.0	U	Napthalene	642.0	28793
4-Bromophenylphenylether	282.0	U	2-Nitroaniline	528.0	U
Butylbenzylphthalate	600.0	U	3-Nitroaniline	372.0	U
2-Chloronaphthalene	450.0	U	4-Nitroaniline	66.0	U
4-Chlorophenylphenylether	510.0	U	Nitrobenzene	414.0	U
Chrysene	378.0	U	N-nitrosodimethylamine	114.0	U
Dibenzo(a,h)anthracene	150.0	U	N-nitrosodiphenylamine	528.0	U
Dibenzofuran	600.0	1347.9	N-nitrosodi-n-propylamine	528.0	U
Di-n-butylphthalate	1356.0	U	Phenanthrene	468.0	2996.7
1,2-Dichlorobenzene	432.0	U	Pyrene	582.0	U
1,3-Dichlorobenzene	528.0	U	1,2,4-Trichlorobenzene	528.0	U

NOTE: MDL = Method Detection Limit

If the result is equal to or greater than the MDL, the value is reported

U = compound analyzed for but not detected

J = estimated value

B = compound also found in Lab Blank



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S										Remarks
Proj. No.		Project Name															
Samplers: (Signature) <i>Bruce Moody</i>																	
Sta. No.	Date	Time	Comp.	Grab	Station Location												
	11/21/91	1:50		X	old loading dock # 12 1/2 standing water	4	✓	✓	✓								
	11/21/91	1:55		X	old loading dock # 14 standing water	4	✓	✓	✓								
Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time 11/21/91 3:00		Received by: (Signature) <i>Fairy Hayes</i>		Relinquished by: (Signature)			Date/Time		Received by: (Signature)					
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Relinquished by: (Signature)			Date/Time		Received by: (Signature)					
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks							

842893905



Jan. 2, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #C13
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 12/19:

Sample No:	0080	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 12/18 - 12/19

BOD-5, mg/l	74,950	507 *
Total Suspended Solids, mg/l	52	2090*
pH, su	8.68	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Druma

QC Check:
SD/df

Sheila Druma
Ass't Lab Manager



7 • Fax (908) 757-0335

0080

CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S									
Proj. No.		Project Name					<div style="text-align: center;">BOD TSS PH</div>									
Samplers: (Signature) <i>ANDRZE PERVA / Thomas Jorman</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location											Remarks
	<i>12/18/91</i> <i>12/19/91</i>	<i>8:00</i> <i>8:00</i>	<i>✓</i>		<i>wastewater</i>	<i>2</i>	<i>✓</i>									
Relinquished by: (Signature) <i>Thomas Jorman</i>			Date/Time <i>12/19/91 11:15</i>		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time <i>12/19/91 3:05</i>		Received by: (Signature) <i>R. Meyer</i>			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)			
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks						

842893907



Jan. 2, 1992

Mr. Mike Bani
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07103

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 12/5:

Sample No:	9446	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 12/5

BOD-5, mg/l	1190	507 *
Total Suspended Solids, mg/l	16	2090*
pH, su	6.46	150.1**

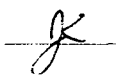
* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Druma

QC Check: 
SD/df

Sheila Druma
Ass't Lab Manager



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS									
Proj. No.		Project Name					<i>POD, TSS, PH</i>									
Samplers: (Signature) <i>Thomas Hornum</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location		Remarks									
	<i>12/5</i>	<i>8:18</i>	<i>24 m</i>		<i>PVSC Dische Sampler</i>	<i>2</i>										<i>6.46</i>
Relinquished by: (Signature) <i>Thomas Hornum</i>			Date/Time <i>12/5/12</i>		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time <i>12/5/12 3:20</i>		Received by: (Signature) <i>Bill Elmer</i>			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)			
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks						

842893909



February 4, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 1/2/92:

Sample No:	0263	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 1/1 - 1/2/92

BOD-5, mg/l	2510	507 *
Total Suspended Solids, mg/l	220	209C*
pH, su	6.27	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: *JF*
SD:wo

Sheila Durma
Ass't Lab Manager



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 • (908) 757-1137 • Fax (908) 757-0335

0263

CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S												
Proj. No.		Project Name					<i>BOD TSS PH</i>												
Sampler's (Signature) <i>Thomas J. Sman</i>																			
Sta. No.	Date	Time	Comp.	Grab	Station Location		Remarks												
	<i>1/1/92</i> <i>1/2/92</i>	<i>8:00</i> <i>8:00</i>	<i>X</i>		<i>wastewater</i>	<i>2</i>	<i>✓</i>												
Relinquished by: (Signature) <i>Thomas J. Sman</i>			Date/Time <i>1/2/92 11:10</i>		Received by: (Signature) <i>Barbara Moody</i>			Relinquished by: (Signature) <i>Barbara Moody</i>			Date/Time <i>1/2/92 12:40</i>		Received by: (Signature) <i>[Signature]</i>						
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)						
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks									

842893911



January 7, 1992

Mr. Mike Baxi
Reichhold Chemicals, Inc.
100 Doremus Ave.
Newark, NJ 07105

Ref: Monthly OCPSF Analysis

Dear Mr. Baxi:

Thank you for your request for quotation for the monthly analysis of PISC wastewater for OCPSF categorical parameters. I am pleased to submit our Proposal 0107921 covering the analysis of samples taken by you and picked up by us on a monthly basis. Townley will provide sample bottles and preservatives.

We thank you for this opportunity to quote and look forward to hearing from you in this regard.

Very truly yours,

Albert M. Fischer

Albert M. Fischer

AMF/df

Proposal For Reichhold Chemicals GC/MSF Analyses

Townley Laboratories agrees to perform the analyses and provide the services described below for the price listed.

For a fee of \$ 750/month, Townley Laboratories will pickup GC/MSF samples taken by Reichhold and analyze the samples by the following methods:

<u>Parameters</u>	<u>Method</u>
Volatile Organics	EPA 621 GC/MS
Acid Extractable Organics	EPA 625 GC/MS
Base/Neutrals Organics	EPA 625 GC/MS
Total Cyanide	EPA 335.2
Total Lead	EPA 239.1
Total Zinc	EPA 289.1

Townley will pickup samples on a prescheduled monthly basis at Reichhold and drop off bottles and preservatives at no additional cost.

Terms of payment are net 30 days.



Mr. Mike Baxi
 Reichhold Chemicals
 Plant #013
 400 Doremus Ave.
 Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one 1.0 sample of wastewater, sampled by your personnel and picked up by us on 2/27:

Sample No:	2365	Analysis
Source:	<u>PVSC Discharge</u>	Method

Sample Date: 2/26 - 2/27

BOD-5, mg/l	79	607 *
Total Suspended Solids, mg/l	17	2090 *
pH, su	7.22	150.1 **

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

Sheila Durma
 Ass't Lab Manager

QC Check: *[Signature]*
 SD/df

TOWNLEY GRAM

Townley Laboratories
Plainfield, NJ

No. 6

"CONSTANT VIGILANCE"

Feb. 12, 1992

NEW INSTRUMENT

We have recently purchased a Lachat QuikChem AE (2 Channel) Automated Analyzer for selected Wet Chemistry analyses. Initially, ammonia, cyanide, nitrate/nitrite, TKN and phosphorus will be automated. The instrument has been installed and our personnel are currently undergoing training in its operation.

This will allow us to increase our throughput, keep more comprehensive QC records and ultimately hold down the cost of the testing. A random access sampler was purchased with the instrument, which allows unattended operation.

This is part of our continuing program to keep up to date with the latest technology to ensure the best quality results with fast turnaround times at competitive prices.



April 6, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
3/19:

Sample No:	3263	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 3/18 - 3/19

BOD-5, mg/l	59	507 *
Total Suspended Solids, mg/l	33	209C*
pH, su	8.24	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

*Sheila Durma*QC Check: *R*
SD:wo *✓* Sheila Durma
Ass't Lab Manager



TOWNLEY
LABORATORIES, INC.
ENVIRONMENTAL TESTING SERVICES

1750 W. Front Street, Plainfield, N.J. 07063 • (908) 757-1337 • Fax (908) 757-0335

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CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS									
Proj. No.		Project Name					<i>1300 TSS PH</i>									
Samplers: (Signature) <i>Client</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location		Remarks									
	<i>3/18/92</i>	<i>8:00</i>	<i>X</i>		<i>Wastewater</i>											<i>PH=8.24</i>
	<i>3/19/92</i>	<i>8:00</i>														
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>3/19/92 11:00</i>		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time <i>3/19/92 2:4</i>		Received by: (Signature) <i>[Signature]</i>			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)			
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks						

842893917



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	TESTS									
Proj. No.		Project Name					<i>BOD TSS pH</i>									
Samplers: (Signature) <i>Client</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location											
	<i>2/26/92</i>	<i>8:00</i>	<i>X</i>		<i>Wastewater</i>	<i>1</i>	<i>✓</i>									<i>7.22</i>
	<i>2/27/92</i>	<i>8:00</i>														
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>2/27/92 11:10</i>		Received by: (Signature) <i>Bruce Moody</i>			Relinquished by: (Signature) <i>Bruce Moody</i>			Date/Time <i>2/27/92 2:45</i>		Received by: (Signature) <i>P. Meyer</i>			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)			
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)				Date/Time		Remarks					

842893918



March 13, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of
wastewater, sampled by your personnel and picked up by us on
2/27:

Sample No:	2365	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 2/26 - 2/27

BCD-5, mg/l	79	507 *
Total Suspended Solids, mg/l	17	209C*
pH, su	7.22	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

Sheila Durma
Ass't Lab Manager

QC Check:
SD/df



May 5, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 4/16:

Sample No:	4334	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 4/15 - 4/16

BOD-5, mg/l	930	507 *
Total Suspended Solids, mg/l	72	209C*
pH, su	7.88	150.1**

* 16th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sheila Durma

QC Check: JK
SD/df

Sheila Durma
Ass't Lab Manager



7 • Fax (908) 757-0335

4334

Company Name

Reichhold

Proj. No.

Project Name

Samplers: (Signature)

Client

Sta. No.

Date

Time

Comp.

Grab

Station Location

No.

of

сод-

tainers

TESTS

BOD TSS PH

Remarks

Relinquished by:
(Signature)

Client

Date/Time

4/11/92 11:40

Received by:
(Signature)

James Moody

Relinquished by:
(Signature)

From Mochy

Date/Time	Location	Activity	Remarks
10/10/2023	10:00 AM	Arrived at the site	Weather: Clear, Temperature: 25°C
10/10/2023	10:15 AM	Started the survey	Initial observations recorded
10/10/2023	10:30 AM	Completed the survey	Final observations recorded
10/10/2023	10:45 AM	Left the site	Weather: Clear, Temperature: 26°C

4/16/91 2:20

Received by:
(Signature)

(Signature)
L. Myers

Relinquished by:
(Signature)

Date/Time

Received by:
(Signature)

Relinquished by:
(Signature)

Date/Time	
-----------	--

Received by
(Signature)

Relinquished by:
(Signature)

Date/Time

Received for Laboratory by:
(Signature)

Date/Time

Remarks

842893921



June 5, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 5/21:

Sample No:	5869	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 5/20 - 5/21

BOD-5, mg/l	260	5210B *
Total Suspended Solids, mg/l	2.0	2540D *
pH, su	7.5	150.1**

* 17th Edition "Standard Methods"

** USEPA

Note: nd = none detected

Very truly yours,

Sharon Ercoliani

QC Check: *[Signature]*
SE/df

Sharon Ercoliani
Lab Manager



CHAIN OF CUSTODY

Company Name <i>Reichhold</i>						No. of con- tainers	T E S T S									
Proj. No.		Project Name					<i>Box TSS PH</i>									
Samplers: (Signature) <i>client</i>																
Sta. No.	Date	Time	Comp.	Grab	Station Location											
	<i>5/20/92</i>	<i>8:00</i>	<i>X</i>		<i>Wastewater</i>	<i>1</i>	<i>✓</i>									<i>PH 7.5</i>
	<i>5/21/92</i>	<i>8:00</i>														
Relinquished by: (Signature) <i>Client</i>			Date/Time <i>5/21/92 12:10 pm</i>		Received by: (Signature) <i>Brian Moody</i>			Relinquished by: (Signature) <i>Brian Moody</i>			Date/Time <i>5/21/92 2:40</i>		Received by: (Signature) <i>B. Key</i>			
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)			
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks						

842893923



July 1, 1992

Mr. Mike Baxi
Reichhold Chemicals
Plant #013
400 Doremus Ave.
Newark, NJ 07105

Gentlemen:

Herewith our findings for the analysis of one (1) sample of wastewater, sampled by your personnel and picked up by us on 6/18:

Sample No:	7125	Analysis
Source:	<u>PVSC Discharge</u>	<u>Method</u>

Sample Date: 6/17 - 6/18

BOD-5, mg/l	190	5210B *
Total Suspended Solids, mg/l	55	2540D *
pH, su	7.5	150.1**

* 17th Edition "Standard Methods"

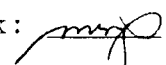
** USEPA

Note: nd = none detected

Very truly yours,

Sharon Ercoliani

Sharon Ercoliani
Lab Manager

QC Check: 
SE:wo



7. 0

SINCE 1990

842893925

842893926



LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 11/16/93

(Page 1 of 1)

LAB No.	DATE	TIME	SAMPLER
20560	10/15/93		CLIENT

DELIVERY TO LAB	DATE	TIME	MATRIX
	10/19/93	0900	WW

CLIENT STATION ID: EFFLUENT
LAB #: 20560

CYANIDE, TOTAL	mg/L	0.04
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.31

LABORATORY DIRECTOR

CHEMTECH

CONSULTING GROUP, INC.

110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEMICAL, INC.Project No.: 2922

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O20560Sample wt/vol: 5 (g/mL) MLLab File ID: V2797.D

Level: (low/med) _____

Date Received: 10/15/93% Moisture: not dec. 100Date Analyzed: 10/19/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Trichlorofluoromethane	10	U
75-09-2	Methylene Chloride	10	
67-64-1	Acetone	22	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	0.4	J
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	14	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	32	
100-42-5	Styrene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD CHEMICAL, INC.

Project No.: 2922

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: 020560

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V2797.D

Level: (low/med)

Date Received: 10/15/93

✕ Moisture: not dec. 100

Date Analyzed: 10/19/93

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

 $\mu\text{g/L}$

Q

[illegible]

IB
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHOLD CHEMICAL, INCProject No.: 2922

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O20560Sample wt/vol: 1000.0 (g/mL ML)Lab File ID: S1615.D

Level: (low/med) _____

Date Received: 10/19/93% Moisture: 100decanted: (Y/N): NDate Extracted: 10/20/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 11/2/93Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	92		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
95-50-1	1,2-Dichlorobenzene	10		U
100-51-6	Benzyl alcohol	7.3		J
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	5		J
108-60-1	bis(2-chloroisopropyl)ether	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
65-85-0	Benzoic Acid	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	6.1		J
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

IB
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHOLD CHEMICAL, INC

Project No.: 2922

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: 020560

Sample wt/vol: 1000.0 (g/mL ML

Lab File ID: S1615.D

Level: (low/med) _____

Date Received: 10/19/93

% Moisture: 100

decanted: (Y/N): N

Date Extracted: 10/20/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/2/93

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	4.8		J
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

ADDITIONAL REQUIREMENTS

REICHOLD CHEMICALS, INC.
400 Doremus Avenue
Newark, NJ 07105

ATTN: Mike Ba

EXPOSURE CHARACTERISTICS	
1	Benzene
2	Carbon Tetrachloride
3	Chlorobenzene
4	1,2,4-Trichlorobenzene
5	Hexachlorobenzene
6	1,2-Dichloroethane
7	1,1,1-Trichloroethane
8	Hexachloroethane
9	1,1-Dichloroethane
10	1,1,2-Trichloroethane
11	Chloroethane
12	Chloroform
13	1,2-Dichlorobenzene
14	1,3-Dichlorobenzene
15	1,4-Dichlorobenzene
16	1,1-Dichloroethylene
17	1,2-Trans-Dichloroethylene
18	1,2-Dichloropropane
19	1,3-Dichloropropane
20	Ethylbenzene
21	Methylene Chloride
22	Methyl Chloride (Chloromethane)
23	Hexachlorobutadiene
24	Nitrobenzene
25	2-Nitrophenol
26	4-Nitrophenol
27	4,6-Dinitro-O-Cresol
28	Tetrachloroethylene
29	Toluene
30	Trichloroethylene
31	Vinyl Chloride
32	Total Cyanide
33	Total Lead
34	Total Zinc

Can #

91-43-2
56-23-5
108-90-7
120-82-1
118-74-1
107-06-2
71-55-6
67-72-1
75-34-4
79-00-5
75-00-3
67-66-3
95-50-1
541-73-1
106-46-7
75-35-4
546-59-0
78-87-5
1006-01-5
100-41-4
75-09-2
74-87-3
87-68-3
98-95-3
88-75-5
100-02-7
534-52-1
127-18-4
108-88-3
79-01-6
75-01-4

* REGULATED VOLUME = GPD
OF PRODUCTION DAYS = 21
MASS LIMITS (g/DAY, #/DAY, K)
COLUMN C = VOLUME
COLUMN D = AVERAGE REGUL
COLUMN E = MAXIMUM REGUL

fax No.
201-491-0074
ATTN: M. Baki

842893932

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHOLD CHEMICAL
 Project No.: 3001 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: Q21266
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V2999.D
 Level: (low/med) _____ Date Received: 11/9/93
 % Moisture: not dec. 100 Date Analyzed: 11/12/93
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	52		
67-64-1	Acetone	13		
75-15-0	Carbon Disulfide	0.2		J
75-35-4	1,1-Dichloroethene	10		U
75-34-4	1,1-Dichloroethane	10		U
540-59-0	1,2-Dichloroethene (total)	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	17		
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U

842893933

SAMPLE NO.

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>REICHHOLD CHEMICAL</u>
Project No.:	<u>3001</u>	Site:	<u> </u>
		Location:	<u> </u>
		Group:	<u> </u>
Matrix: (soil/water)	<u>WATER</u>	Lab Sample ID:	<u>O21266</u>
Sample wt/vol:	<u>5.0</u> (g/mL) <u>ML</u>	Lab File ID:	<u>V2999.D</u>
Level: (low/med)	<u> </u>	Date Received:	<u>11/9/93</u>
% Moisture: not dec.	<u>100</u>	Date Analyzed:	<u>11/12/93</u>
GC Column: <u>DB624</u>	ID: <u>0.53</u> (mm)	Dilution Factor:	<u>1.0</u>
Soil Extract Volume:	<u> </u> (uL)	Soil Aliquot Volume:	<u> </u> (uL)

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
---------	----------	-----------------	-------------	---

[illegible]

842893934

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHOLD CHEMICAL, INCProject No.: 3001

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O21266Sample wt/vol: 1000.0 (g/mL MLLab File ID: S1703.D

Level: (low/med) _____

Date Received: 11/9/93Moisture: 100decanted: (Y/N): NDate Extracted: 1/13/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 11/17/93Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol		26	
111-44-4	bis(2-Chloroethyl)ether		10	U
95-57-8	2-Chlorophenol		10	U
95-50-1	1,2-Dichlorobenzene		10	U
100-51-6	Benzyl alcohol		10	
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitroso-di-n-propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		2.6	J
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	bis(2-Chloroethoxy)methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
65-85-0	Benzoic Acid		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		3.3	J
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		50	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		50	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U

842893935

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC
 Project No.: 3001 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O21266
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1703.D
 Level: (low/med) _____ Date Received: 11/9/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 1/13/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/17/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50	U	U
83-32-9	Acenaphthene	10	U	U
51-28-5	2,4-Dinitrophenol	50	U	U
100-02-7	4-Nitrophenol	50	U	U
132-64-0	Dibenzofuran	10	U	U
121-14-2	2,4-Dinitrotoluene	10	U	U
84-66-2	Diethylphthalate	10	U	U
7005-72-3	4-Chlorophenyl-phenylether	10	U	U
86-73-7	Fluorene	10	U	U
100-01-6	4-Nitroaniline	50	U	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U	U
86-30-6	N-Nitrosodiphenylamine	10	U	U
101-55-3	4-Bromophenyl-phenylether	10	U	U
118-74-1	Hexachlorobenzene	10	U	U
87-86-5	Pentachlorophenol	50	U	U
85-01-8	Phenanthrene	10	U	U
120-12-7	Anthracene	10	U	U
84-74-2	Di-n-butylphthalate	10	U	U
206-44-0	Fluoranthene	10	U	U
129-00-0	Pyrene	10	U	U
85-68-7	Butylbenzylphthalate	10	U	U
91-94-1	3,3'-Dichlorobenzidine	10	U	U
56-55-3	Benzo[a]anthracene	10	U	U
218-01-9	Chrysene	10	U	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U	U
117-84-0	Di-n-octylphthalate	10	U	U
205-99-2	Benzo[b]fluoranthene	10	U	U
207-08-9	Benzo[k]fluoranthene	10	U	U
50-32-8	Benzo[a]pyrene	10	U	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U	U
53-70-3	Dibenz[a,h]anthracene	10	U	U
191-24-2	Benzo[g,h,i]perylene	10	U	U

842893936

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 11/23/93

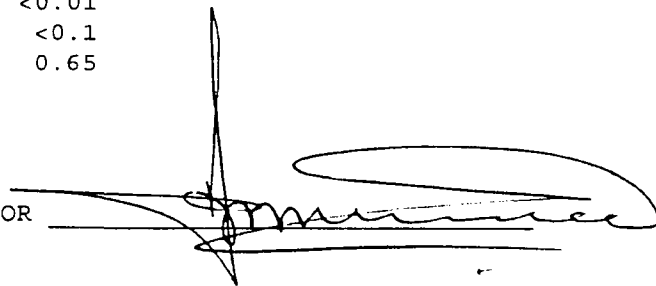
(Page 1 of 1)

LAB No.	DATE	SAMPLE TIME	SAMPLER	DELIVERY TO LAB DATE	TIME MATRIX
21266	11/09/93		CLIENT	11/09/93	0900 WW

CLIENT STATION ID: EFFLUENT
LAB #: 21266

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.65

LABORATORY DIRECTOR



Shantech Laboratory

fax

567-1333

To : Mr. Melita, Lab Manager

From : Mike Baxi, Env Eng

Reichhold Chemicals, Inc.
650 Poppeny Ave
Newark, NJ 07105

Page 2

Date Nov. 17, 1993

Please fill out the cos number

for PISC, CCPSE parameter listed
in attached sheet.

Thanks -

Mike Baxi
Reichhold - Newark

ADDITIONAL REQUIREMENTS

REICHOLD CHEMICALS, INC.
400 Jerome Avenue
Newark, NJ 07101

ATTN: Alice Bax

EFFLUENT	
#	CHARACTERISTICS
1	Benzene
2	Carbon Tetrachloride
3	Chlorobenzene
4	1,2,4,-Trichlorobenzene
5	Hexachlorobenzene
6	1,2-Dichloroethane
7	1,1,1-Trichloroethane
8	Hexachloroethane
9	1,1-Dichloroethane
10	1,1,2-Trichloroethane
11	Chloroethane
12	Chloroform
13	1,2-Dichlorobenzene
14	1,3-Dichlorobenzene
15	1,4-Dichlorobenzene
16	1,1-Dichloroethylene
17	1,2-Trans-Dichloroethylene
18	1,2-Dichloropropane
19	1,3-Dichloropropylene
20	Ethylbenzene
21	Methylene Chloride
22	Methyl Chloride (Chloromethane)
23	Hexachlorobutadiene
24	Nitrobenzene
25	2-Nitrophenol
26	4-Nitrophenol
27	4,6-Dinitro-O-Cresol
28	Tetrachloroethylene
29	Toluene
30	Trichloroethylene
31	Vinyl Chloride
32	Total Cyanide
33	Total Lead
34	Total Zinc

*REGULATED VOLUME = GPD
OF PRODUCTION DAYS = 211
MASS LIMITS (g/DAY, #/DAY, K)
COLUMN C = VOLUME
COLUMN D = AVERAGE REGUL
COLUMN E = MAXIMUM REGUL

842893939

fax No.
201-491-0074
ATTN: M. Baxi

P. TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.
 Mailing Address 400 Doremus Ave.
 Facility Location Newark, N.J. 07105
 Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
 Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
12	01	93	12	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day 5,485 5,787
 Total Flow-gal/day 15,321
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	0.01037	0.01095	GRAMS	1	GRAB
	Permit requirement	1.74602	4.10469	GRAMS	1	
CARBON TETRA CHLORIDE	Sample measurement	0.10375	0.10946	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
CHLORO- BENZENE	Sample measurement	0.00830	0.00876	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	0.20749	0.21892	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
HEXACHLORO BENZENE	Sample measurement	0.20749	0.21892	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,2, DICHLORO ETHANE	Sample measurement	0.00415	0.00438	GRAMS	1	GRAB
	Permit requirement	5.51376	17.58277	GRAMS	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	0.00622	0.00657	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	
HEXACHLORO ETHANE	Sample measurement	0.20749	0.21892	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,1, DICHLORO ETHANE	Sample measurement	0.10375	0.10946	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	

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842893940

Name Reichhold Chemicals Inc.
 Mailing Address 400 Doremus Ave.
 Facility Location Newark, N.J. 07105
 Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
 Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
12	61	93	12	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5,485</u>	<u>5,787</u>
Total Flow-gal/day	<u>15,321</u>	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gal
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	0.10375	0.10946	GRAMS	1	
	Permit requirement	0.98022	3.89026	GRAMS	1	GRAB
CHLOROETHANE	Sample measurement	0.20749	0.21892	GRAMS	1	
	Permit requirement	3.36952	9.03644	GRAMS	1	GRAB
CHLOROFORM	Sample measurement	0.02282	0.02408	GRAMS	1	
	Permit requirement	3.40015	9.95540	GRAMS	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	0.20749	0.21892	GRAMS	1	
	Permit requirement	6.00387	24.32181	GRAMS	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	0.20749	0.21892	GRAMS	1	
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	0.20749	0.21892	GRAMS	1	
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	0.10375	0.10946	GRAMS	1	
	Permit requirement	0.67390	1.85792	GRAMS	1	GRAB
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	0.10375	0.10946	GRAMS	1	
	Permit requirement	0.76580	2.02171	GRAMS	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	0.10375	0.10946	GRAMS	1	
	Permit requirement	6.00387	24.32181	GRAMS	1	GRAB

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842893941

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201 589 3709

Monitoring Period					
12	01	93	12	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

Regulated flow-gal/day 5,485 AVG MAX 5,787
 Total Flow-gal/day 15,321
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample typ Comp./gral
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	0.25749	0.21892	GRAMS	1	GRAB
	Permit requirement	6.00387	24.32181	GRAMS	1	
ETHYL. BENZENE	Sample measurement	0.22824	0.24081	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
METHYLENE CHLORIDE	Sample measurement	0.10997	0.11603	GRAMS	1	GRAB
	Permit requirement	1.10275	5.20744	GRAMS	1	
METHYL CHLORIDE	Sample measurement	0.20749	0.21892	GRAMS	1	GRAB
	Permit requirement	3.36952	9.03644	GRAMS	1	
HEXACHLORO BUTADIENE	Sample measurement	0.20749	0.21892	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
NITROBENZENE	Sample measurement	0.20749	0.21892	GRAMS	1	COMPOSITE
	Permit requirement	68.52380	196.10610	GRAMS	1	
2-NITRO PHENOL	Sample measurement	0.20749	0.21892	GRAMS	1	COMPOSITE
	Permit requirement	1.99108	7.07599	GRAMS	1	
4-NITRO PHENOL	Sample measurement	1.03747	1.09459	GRAMS	1	COMPOSITE
	Permit requirement	4.96238	17.64403	GRAMS	1	
4,6, DINITRO OHMORESOL	Sample measurement	1.03747	1.09459	GRAMS	1	COMPOSITE
	Permit requirement	2.38938	8.48507	GRAMS	1	

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842893942

WASTE TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
12	01	93	12	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day AVG 5,485 MAX 5,787
 Total Flow-gal/day 15,321
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	0.00830	0.00876	GRAMS	1	GRAB
	Permit requirement	1.59286	5.02365	GRAMS	1	
TOLUENE	Sample measurement	0.06640	0.07005	GRAMS	1	GRAB
	Permit requirement	0.85770	2.26677	GRAMS	1	
TRICHLORO ETHYLENE	Sample measurement	0.00622	0.00657	GRAMS	1	GRAB
	Permit requirement	0.79643	2.11361	GRAMS	1	
VINYL CHLORIDE	Sample measurement	0.20749	0.21842	GRAMS	1	GRAB
	Permit requirement	2.97130	526870	GRAMS	1	
TOTAL CYANIDE	Sample measurement	0.83008	0.87568	GRAMS	1	GRAB
	Permit requirement	12.86544	36.75841	GRAMS	1	
TOTAL LEAD	Sample measurement	2.07494	2.18919	GRAMS	1	COMPOSITE
	Permit requirement	9.80224	21.13608	GRAMS	1	
TOTAL ZINC	Sample measurement	6.43232	6.78648	GRAMS	1	COMPOSITE
	Permit requirement	32.16361	79.94953	GRAMS	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

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842893943

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH
40 CFR 414.558 SUBPART E FEB DEC. 1993.

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER
Type Name and Title

01/18/1994
Date

842893944

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: DECEMBER - 1993

REGULATED FLOW FROM
DOREMUS AVENUE

00,000 GAL.

49,365 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
425,600 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
49,365 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: 49,365 GAL.

NON-OCPSF FLOW: 425,600 GAL.

TOTAL FLOW: 474,965 GAL.

SIGNED:

DATE:

A. E. Heffernan
1/14/94

474,965 gallons
Ave for month
31
= 15,321 gal/day

842893945

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

DECEMBER - 1993

1. Days unit operated during the month: 9
2. Average volume processed per day: 5485 gal.
3. Volume recieved from Albert Ave. plant: 49,365 gal.
4. Volume generated at Doremus Ave. plant: 0 gal.
5. Total water treated during the month: 49,365 gal.

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: DEC. 01, 93 TO: DEC. 31, 1993.

WATER USED @ 390 DOREMUS AVE. ----- 19,863 CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- 40,030 CU. FT.

TOTAL WATER USED AT THE PLANT ----- 59,893 CU. FT.

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- 448,000 GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- 425,600 GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- 49,365 GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- 474,965 GALLONS.

NET DISCHARGE TO P.V.S.C. ----- 474,965 GALLONS.

REICHOLD CHEMICALS, INC.
400 DOREMUS AVENUE
NEWARK, NEW JERSEY 07105

OCPSF Process Water Shipments from Reichhold, Albert Ave Plant.

Date of Shipment	Lbs. of Water	Gallons of Water
-----	-----	-----
1. 12/03/93	34,380	4,122
2. 12/09/93	45,570	5,464
3. 12/09/93	46,520	5,578
4. 12/14/93	47,820	5,734
5. 12/17/93	47,880	5,741
6. 12/20/93	47,890	5,742
7. 12/21/93	48,260	5,787
8. 12/23/93	45,760	5,487
9. 12/30/93	47,620	5,710

Total Gallons Received from Albert Avenue : 49,365

842893948

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

DANIEL F. BECHT
ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

January 20, 1994

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

Reichhold Chemical Inc.
300-400 Doremus Avenue
Newark NJ 07105
Arthur Diffenbach

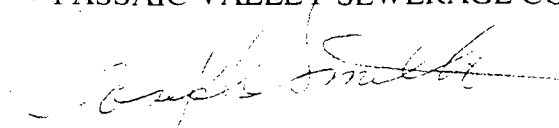
Dear Mr. Diffenbach:

As requested, we are attaching a copy of the lab results from our sampling at your plant.

If you have any further questions, please contact Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS


Joseph Smith

JS/mc

Attachments

842893950

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
11	01	93	11	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day AVG 5614 MAX 5863
 Total Flow-gal/day 17,048
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gral
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	0.98022	3.89026	GRAMS	1	GRAB
CHLOROETHANE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	3.36952	9.03644	GRAMS	1	GRAB
CHLOROFORM	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	3.40015	9.95540	GRAMS	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	6.00387	24.32181	GRAMS	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	0.67390	1.85792	GRAMS	1	GRAB
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	0.76580	2.02171	GRAMS	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	6.00587	24.32181	GRAMS	1	GRAB

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842893952

TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201 589 3709

Monitoring Period					
11	01	93	11	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day 5614 ^{AVG} 5863 ^{MAX}
 Total Flow-gal/day 17,048
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample typ Comp./gral
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	0.42475	0.44359	GRAMS		
	Permit requirement	6.00387	24.32181	GRAMS	1	GRAB
ETHYL. BENZENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	4.34974	11.64016	GRAMS	1	GRAB
METHYLENE CHLORIDE	Sample measurement	1.10434	1.15333	GRAMS		
	Permit requirement	1.10275	5.20744	GRAMS	1	GRAB
METHYL CHLORIDE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	3.36952	9.03644	GRAMS	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
NITROBENZENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	68.52380	196.10610	GRAMS	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	1.99108	7.07599	GRAMS	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	1.06187	1.10897	GRAMS		
	Permit requirement	4.96238	17.64403	GRAMS	1	COMPOSITE
4,6, DINITRO OH-CRESOL	Sample measurement	1.06187	1.10897	GRAMS		
	Permit requirement	2.38938	8.48507	GRAMS	1	COMPOSITE

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842893953

TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.
Mailing Address 400 Doremus Ave.
Facility Location Newark, N.J. 07105
Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
11	01	93	11	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period
Regulated flow-gal/day AVG 5614 MAX 5863
Total Flow-gal/day 17,048
Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr.
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	1.59286	5.02365	GRAMS	1	GRAB
TOLUENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	0.85770	2.26677	GRAMS	1	GRAB
TRICHLORO ETHYLENE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	0.79643	2.11361	GRAMS	1	GRAB
VINYL CHLORIDE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	2.97130	526870	GRAMS	1	GRAB
TOTAL CYANIDE	Sample measurement	0.21237	0.22179	GRAMS		
	Permit requirement	12.86544	36.75841	GRAMS	1	GRAB
TOTAL LEAD	Sample measurement	2.12374	2.21794	GRAMS		
	Permit requirement	9.80224	21.13608	GRAMS	1	COMPOSITE
TOTAL ZINC	Sample measurement	13.80433	14.41660	GRAMS		
	Permit requirement	32.16361	79.94953	GRAMS	1	COMPOSITE
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4 6/87 P1

842893954

RETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
11	01	93	11	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5,614	5,863
Total Flow-gal/day	17,048	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	0.21237	0.22179	GRAMS	1	GRAB
	Permit requirement	1.74602	4.10469	GRAMS	1	
CARBON TETRA CHLORIDE	Sample measurement	0.21237	0.22179	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
CHLORO-BENZENE	Sample measurement	0.21237	0.22179	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	0.21237	0.22179	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
HEXACHLORO BENZENE	Sample measurement	0.21237	0.22179	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,2, DICHLORO ETHANE	Sample measurement	0.21237	0.22179	GRAMS	1	GRAB
	Permit requirement	5.51376	17.58277	GRAMS	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	0.21237	0.22179	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	
HEXACHLORO ETHANE	Sample measurement	0.21237	0.22179	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,1, DICHLORO ETHANE	Sample measurement	0.21237	0.22179	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	

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842893955

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH
40 CFR 414.558 SUBPART E FOR NOV 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach

Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIETTENBACH

PLANT ENGINEER

Type Name and Title

12/20/93

Date

842893956

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF: NOVEMBER 1993

REGULATED FLOW FROM
DOREMUS AVENUE

0 GAL.

44,910 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
466,530 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
44,910 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

511,440 gallons

OCPSF REGULATED FLOW: 44,910 GAL.

NON-OCPSF FLOW: 466,530 GAL.

TOTAL FLOW: 511,440 GAL.

LIFT
STATION

Ave for
month $\frac{511,440}{30}$
= 17,048 gals/day.

SIGNED: John Deffenbach

DATE: 12/20/93

842893957

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

1. Days unit operated during the month: 8
2. Average volume processed per day: 5,614 gal.
3. Volume recieved from Albert Ave. plant: 44,910 gal.
4. Volume generated at Doremus Ave. plant: 0 gal.
5. Total water treated during the month: 44,910 gal.

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM:

TO:

WATER USED @ 390 DOREMUS AVE. ----- 28,593 CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- 37,060 CU. FT.

TOTAL WATER USED AT THE PLANT ----- 65,653

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- 491,084 GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- 466,530 GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- 44,910 GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- 511,440 GALLONS.

NET DISCHARGE TO P.V.S.C. ----- 511,440 GALLONS.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

PLANT to DOREMUS AVE PLANT.

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
-------------------------	----------------------	-------------------------

1. 11/02/93	48,900	5,863
2. 11/05/93	48,440	5,808
3. 11/08/93	46,620	5,590
4. 11/11/93	48,760	5,847
5. 11/16/93	46,800	5,612
6. 11/22/93	48,460	5,811
7. 11/24/93	47,080	5,645
8. 11/30/93	39,480	4,734

Total Gallons Recieved From Albert Ave.: 44,910 gallons

Total Tankwagons

= 8.

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

PRETREATMENT MONITORING PORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
10	01	93	10	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day 5769 AVG MAX
 Total Flow-gal/day 13,632
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	1.74602	4.10469	GRAMS	1	GRAB
CARBON TETRA CHLORIDE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	4.34974	11.64016	GRAMS	1	GRAB
CHLORO- BENZENE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	4.34974	11.64016	GRAMS	1	GRAB
1,2,4, TRI CHLOROBENZENE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	6.00387	24.32181	GRAMS	1	COMPOSITE
HEXACHLORO BENZENE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	6.00387	24.32181	GRAMS	1	COMPOSITE
1,2, DICHLORO ETHANE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	5.51376	17.58277	GRAMS	1	GRAB
1,1,1, TRI CHLOROETHANE	Sample measurement	<0.00873	<0.00917			
	Permit requirement	0.67390	1.80729	GRAMS	1	GRAB
HEXACHLORO ETHANE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	6.00387	24.32181	GRAMS	1	COMPOSITE
1,1, DICHLORO ETHANE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	0.67390	1.80729	GRAMS	1	GRAB

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842893962

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
10	01	93	10	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5769	6058
Total Flow-gal/day	13632	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gral
		Average	Maximum	Units		
1,1,2, TRI- CHLOROETHANE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	0.98022	3.89026	GRAMS	1	GRAB
CHLOROETHANE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	3.36952	9.03644	GRAMS	1	GRAB
CHLOROFORM	Sample measurement	<0.10912	<0.11459			
	Permit requirement	3.40015	9.95540	GRAMS	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	6.00387	24.32181	GRAMS	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	0.67390	1.83792	GRAMS	1	GRAB
1,2, TRANS DI- CHLOROETHYLENE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	0.76580	2.02171	GRAMS	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	6.00387	24.32181	GRAMS	1	GRAB

PVSC Form MR-1 Rev. 4/6/87 P1

842893963

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201 589 3709

Monitoring Period					
10	01	93	10	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	<u>AVG</u>	<u>MAX</u>
Regulated flow-gal/day	<u>5769</u>	<u>6058</u>
Total Flow-gal/day	<u>13632</u>	
Method used	_____	

Parameter		Mass Limit			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	0.21824	0.22917			
	Permit requirement	6.00387	24.32181	GRAMS	1	GRAB
ETHYL BENZENE	Sample measurement	0.69836	0.73335			
	Permit requirement	4.34974	11.64016	GRAMS	1	GRAB
METHYLENE CHLORIDE	Sample measurement	0.21824	0.22917			
	Permit requirement	1.10275	5.20744	GRAMS	1	GRAB
METHYL CHLORIDE	Sample measurement	0.21824	0.22917			
	Permit requirement	3.36952	9.03644	GRAMS	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	0.21824	0.22917			
	Permit requirement	4.34974	11.64016	GRAMS	1	COMPOSITE
NITROBENZENE	Sample measurement	0.21824	0.22917			
	Permit requirement	68.52380	196.10610	GRAMS	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	0.21824	0.22917			
	Permit requirement	1.99108	7.07599	GRAMS	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	1.091189	1.14585			
	Permit requirement	4.96238	17.64403	GRAMS	1	COMPOSITE
4,6, DINITRO ORCHESOL	Sample measurement	1.091189	1.14585			
	Permit requirement	2.38938	8.48507	GRAMS	1	COMPOSITE

PVSC Form MR-1 Rev. 4/6/87 P1

842893964

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
10	01	93	10	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day AVG 5764 MAX 6058
 Total Flow-gal/day 13632
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	1.59286	5.02365	GRAMS	1	GRAB
TOLUENE	Sample measurement	0.30553	0.32084			
	Permit requirement	0.85770	2.26677	GRAMS	1	GRAB
TRICHLORO ETHYLENE	Sample measurement	<0.10912	<0.11459			
	Permit requirement	0.79643	2.11361	GRAMS	1	GRAB
VINYL CHLORIDE	Sample measurement	<0.21824	<0.22917			
	Permit requirement	2.97130	526870	GRAMS	1	GRAB
TOTAL CYANIDE	Sample measurement	0.87295	0.91668			
	Permit requirement	12.86544	36.75841	GRAMS	1	GRAB
TOTAL LEAD	Sample measurement	2.18238	2.29171			
	Permit requirement	9.80224	21.13608	GRAMS	1	COMPOSITE
TOTAL ZINC	Sample measurement	6.76537	7.10429			
	Permit requirement	32.16361	79.94953	GRAMS	1	COMPOSITE
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4/6/87 P1

842893965

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: OCT. 01, 93 TO: OCT. 31, 93.

WATER USED @ 390 DOREMUS AVE. ----- 16,021 CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- 35,330 CU. FT.

TOTAL WATER USED AT THE PLANT ----- 51,351 cu. ft.

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- 384,105 GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- 364,900 GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- 57,692 GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- 422,592 GALLONS.

NET DISCHARGE TO P.V.S.C. ----- 422,592 GALLONS.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

OCT. 01, 1993 to OCT. 31, 1993.

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 10/02/93	47,180	5,657
2. 10/05/93	48,060	5,763
3. 10/09/93	50,520	6,058
4. 10/13/93	48,260	5,787
5. 10/16/93	47,940	5,748
6. 10/20/93	48,320	5,794
7. 10/21/93	45,340	5,436
8. 10/25/93	48,280	5,789
9. 10/27/93	48,960	5,871
10. 10/29/93	48,280	5,789
		<hr/> 57,692

Total Gallons Received from ALbert Ave:
= 57,692 .

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

OCTOBER 1993

1. Days unit operated during the month: 10
2. Average volume processed per day: 5769 gal.
3. Volume recieved from Albert Ave. plant: 57,692 gal.
4. Volume generated at Doremus Ave. plant: 0 gal.
5. Total water treated during the month: 57,692 gal.

400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: Oct 1993

REGULATED FLOW FROM
DOREMUS AVENUE

0 GAL.

57,692 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
364,900 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
57,692 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: 57,692 GAL.

NON-OCPSF FLOW: 364,900 GAL.

TOTAL FLOW: 422,592 GAL.

SIGNED: Al Dieffenbach

DATE: 10/18/93

842893969

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR OCT 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER
Type Name and Title

11/18/93
Date

842893970

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

842893972

REICHHOLD CHEMICALS, INC.
400 DOREMUS AVENUE
NEWARK, NEW JERSEY 07105

1

PRETREATMENT MONITORING REPORT

PVSC MR-1

FOR THE MONTH OF OCTOBER 1993.

AVE FLOW FOR MONTH = 5769 GALLONS

MAXIMUM FLOW FOR MONTH = 6058 GALLONS

=====

NO	PARAMETER	CAS NUMBER	AVE FLOW FACTOR	MAX FLOW FACTOR	RESULTS LAB	MASS LIMIT AVERAGE	MASS LIMIT MAXIMUM
=====	=====	=====	=====	=====	=====	=====	=====
001	BENZENE		0.021823	0.022917	5 MICGR/L	0.109118921	0.114585270
002	CARBON TETRA CHLORIDE		0.021823	0.022917	5 MICGR/L	0.109118921	0.114585270
003	CHLOROBENZENE		0.021823	0.022917	5 MICGR/L	0.109118921	0.114585270
004	1,2,4, TRICHLOROBENZENE		0.021823	0.022917	10 MICGR/L	0.218237843	0.229170541
005	HEXACHLOROBENZENE		0.021823	0.022917	10 MICGR/L	0.218237843	0.229170541
006	1,2, DICHLOROETHANE		0.021823	0.022917	5 MICGR/L	0.109118921	0.114585270

007	1,1,1, TRICHLOROETHANE	0.021823	0.022917	0.4	MICGR/L	0.008729513	0.009166821
008	HEXACHLOROETHANE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
009	1,1, DICHLOROETHANE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
010	1,1,2, TRICHLOROETHANE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
011	CHLOROETHANE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
012	CHLOROFORM	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
013	1,2, DICHLOROBENZENE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
014	1,3, DICHLOROBENZENE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
015	1,4, DICHLOROBENZENE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
016	1,1, DICHLOROETHYLENE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
017	1,2, TRANS DICHLOROETHYLENE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
018	1,2, DICHLOROPROPANE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
019	1,3, DICHLOROPROPYLENE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
020	ETHYLBENZENE	0.021823	0.022917	32	MICGR/L	0.698361098	0.733345733
021	METHYLENE CHLORIDE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
022	METHYL CHLORIDE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
023	HEXACHLOROBUTADIENE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
024	NITROBENZENE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
025	2-NITROPHENOL	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
026	4-NITROPHENOL	0.021823	0.022917	50	MICGR/L	1.091189216	1.145852707
027	4,6, DINOTRO O-CRESOL	0.021823	0.022917	50	MICGR/L	1.091189216	1.145852707
028	TETRACHLOROETHYLENE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270

029 TOLUENE	0.021823	0.022917	14	MICGR/L	0.305532980	0.320838758
030 TRICHLOROETHYLENE	0.021823	0.022917	5	MICGR/L	0.109118921	0.114585270
031 VINYL CHLORIDE	0.021823	0.022917	10	MICGR/L	0.218237843	0.229170541
032 TOTAL CYANIDE	21.82378	22.91705	0.04	GR/L	0.872951372	0.916682166
033 TOTAL LEAD	21.82378	22.91705	0.10	GR/L	2.182378432	2.291705415
034 TOTAL ZINC	21.82378	22.91705	0.31	GR/L	6.765373139	7.104286788

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105


REICHHOLD

October 14, 1993

Passaic Valley Sewerage Comm.
600 Wilson Ave.
Newark, NJ 07105
Attn. Industrial Dept.

Dear Sir,

Attached you will find the completed MR-1 report for Sept., 1993 for our facility at 400 Doremus Ave., Newark, NJ. If you require any additional information regarding this report please contact me at (201)-589-3716 during business hours.

Sincerely yours,

Arthur E. Dieffenbach
Plant Engineer

RETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
09	01	93	09	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5636</u>	<u>5897</u>
Total Flow-gal/day	<u>27574</u>	
Method used	_____	

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr.
		Average	Maximum	Units		
BENZENE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	1.74602	4.10469	GRAMS	1	
CARBON TETRA CHLORIDE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
CHLORO- BENZENE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<0.21321	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
HEXACHLORO BENZENE	Sample measurement	<0.21321	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,2, DICHLORO ETHANE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	5.51376	17.58277	GRAMS	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	
HEXACHLORO ETHANE	Sample measurement	<.21321	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,1, DICHLORO ETHANE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	

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842893976

TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
09	01	93	09	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day AVG 5636 MAX 5897
 Total Flow-gal/day 27574
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gral
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	0.98022	3.89026	GRAMS	1	
CHLOROETHANE	Sample measurement	<1.06605	<1.11542	GRAMS	1	GRAB
	Permit requirement	3.36952	9.03644	GRAMS	1	
CHLOROFORM	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	3.40015	9.95540	GRAMS	1	
1,2, DICHLORO BENZENE	Sample measurement	<0.21321	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,3, DICHLORO BENZENE	Sample measurement	<0.21321	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,4, DICHLORO BENZENE	Sample measurement	<0.21321	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,1, DICHLORO ETHYLENE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	0.67390	1.85792	GRAMS	1	
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	0.76580	2.02171	GRAMS	1	
1,2, DICHLORO PROPANE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	6.00387	24.32181	GRAMS	1	

TREATMENT MONITORING REP I

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201 589 3709

Monitoring Period					
09	01	93	09	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5636	5897
Total Flow-gal/day	27574	
Method used		

Parameter		Mass Limit			No. of Samples	Sample typ Comp./gal
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	6.00387	24.32181	GRAMS	1	
ETHYL. BENZENE	Sample measurement	0.09594	0.10039	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
METHYLENE CHLORIDE	Sample measurement	<0.53302	<0.55771	GRAMS	1	GRAB
	Permit requirement	1.10275	5.20744	GRAMS	1	
METHYL CHLORIDE	Sample measurement	<1.06605	<1.11542	GRAMS	1	GRAB
	Permit requirement	3.36952	9.03644	GRAMS	1	
HEXACHLORO BUTADIENE	Sample measurement	<0.21821	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
NITROBENZENE	Sample measurement	<0.21821	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	68.52380	196.10610	GRAMS	1	
2-NITRO PHENOL	Sample measurement	<0.21821	<0.22308	GRAMS	1	COMPOSITE
	Permit requirement	1.99108	7.07599	GRAMS	1	
4-NITRO PHENOL	Sample measurement	<1.06605	<1.11542	GRAMS	1	COMPOSITE
	Permit requirement	4.96238	17.64403	GRAMS	1	
4,6, DINITRO OHIORESOL	Sample measurement	<1.06605	<1.11542	GRAMS	1	COMPOSITE
	Permit requirement	2.38938	8.48507	GRAMS	1	

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842893978

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
09	01	93	09	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day 5636 AVG MAX
 Total Flow-gal/day 27574
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample ty; Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<0.5302	<0.5577	GRAMS	1	GRAB
	Permit requirement	1.59286	5.02365	GRAMS	1	
TOLUENE	Sample measurement	0.09168	0.09593	GRAMS	1	GRAB
	Permit requirement	0.85770	2.2677	GRAMS	1	
TRICHLORO ETHYLENE	Sample measurement	0.09381	0.09816	GRAMS	1	GRAB
	Permit requirement	0.79643	2.11361	GRAMS	1	
VINYL CHLORIDE	Sample measurement	<1.06605	<1.11542	GRAMS	1	GRAB
	Permit requirement	2.97130	526870	GRAMS	1	
TOTAL CYANIDE	Sample measurement	<0.21321	<0.22308	GRAMS	1	GRAB
	Permit requirement	12.86544	36.75841	GRAMS	1	
TOTAL LEAD	Sample measurement	<2.13211	<2.2308	GRAMS	1	COMPOSITE
	Permit requirement	9.80224	21.13608	GRAMS	1	
TOTAL ZINC	Sample measurement	15.5644	16.2851	GRAMS	1	COMPOSITE
	Permit requirement	32.16361	79.94953	GRAMS	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

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842893979

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

SEPT 1993

1. Days unit operated during the month: *11*
2. Average volume processed per day: *5636* gal.
3. Volume recieved from Albert Ave. plant: *62,000* gal.
4. Volume generated at Doremus Ave. plant: *-0* gal.
5. Total water treated during the month: *62,000* gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: SEPT 1993

REGULATED FLOW FROM
DOREMUS AVENUE

0 - GAL.

62,000 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
765,210 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
62000 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: 62,000 GAL.

NON-OCPSF FLOW: 765,210 GAL.

TOTAL FLOW: 827,210 GAL.

SIGNED: Al Heffernbach

DATE: 10/12/93

842893981

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

SEPT, 1, 1993 to SEPT. 30, 1993

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 9/2/93	49,180	5897
2. 9/3/93	48,240	5784
3. 9/8/93	48,260	5830
4. 9/10/93	48,300	5791
5. 9/13/93	48900	5863
6. 9/16/93	48480	5813
7. 9/18/93	47540	5700
8. 9/22/93	34400	4125
9. 9/24/93	49120	5890
10. 9/27/93	47220	5662
11. 9/29/93	47080	5645

TOTAL GALLONS RECEIVED FROM ALBERTA 62,000

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *Sept 1, 1993* TO: *Sept 30, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *22,015* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *85,670* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *107,685*

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *805,484* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *765,210* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *62,000* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *827,210* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *827,210* GALLONS.

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Required

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR SEPT 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIETFFENBACH
Type Name and Title
PLANT ENGINEER

10/12/93
Date

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals, Inc.

Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD


September 17, 1993

Passaic Valley Sewerage Comm.
600 Wilson Ave.
Newark, NJ 07105
Attn. Industrial Dept.

Dear Sir,

Attached you will find the completed MR-1 report for Aug. 1993 for our facility at 400 Doremus Ave, Newark, NJ. If you require any additional information regarding this report please contact me at (201)-589-3716 during business hours.

Sincerely yours,


Arthur E. Dieffenbach
Plant Engineer

RETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official A. JIEFFENBACH Telephone# 201-589-3709

Monitoring Period					
08	01	93	08	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5790	5952
Total Flow-gal/day	37741	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	1.74602	4.10469	GRAMS	1	
CARBON TETRA CHLORIDE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
CHLORO-BENZENE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
HEXACHLORO BENZENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,2, DICHLORO ETHANE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	5.51376	17.58277	GRAMS	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	
HEXACHLORO ETHANE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,1, DICHLORO ETHANE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	0.67390	1.80729	GRAMS	1	

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842893987

TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official A. DIEFFENBACH

Telephone# 201-589-3709

Monitoring Period					
08	01	93	08	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5790	5752
Total Flow-gal/day	37741	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gal
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	0.98022	3.89026	GRAMS	1	
CHLOROETHANE	Sample measurement	1.09240	<1.12302	GRAMS	1	GRAB
	Permit requirement	3.36952	9.03644	GRAMS	1	
CHLOROFORM	Sample measurement	0.02622	0.02695	GRAMS	1	GRAB
	Permit requirement	3.40015	9.95540	GRAMS	1	
1,2, DICHLORO BENZENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	6.00387	24.32181	GRAMS	1	
1,3, DICHLORO BENZENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,4, DICHLORO BENZENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
1,1, DICHLORO ETHYLENE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	0.67390	1.83792	GRAMS	1	
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	0.76580	2.02171	GRAMS	1	
1,2, DICHLORO PROPANE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	6.00387	24.32181	GRAMS	1	

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842893988

TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official A. DIETFFENBACH Telephone# 201 589 3700

Monitoring Period					
08	01	93	08	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5790	5952
Total Flow-gal/day	37741	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gral
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<0.54622	<0.54622	GRAMS	1	GRAB
	Permit requirement	6.00387	24.32181	GRAMS	1	
ETHYL BENZENE	Sample measurement	0.12017	0.12353	GRAMS	1	GRAB
	Permit requirement	4.34974	11.64016	GRAMS	1	
METHYLENE CHLORIDE	Sample measurement	<1.09245	<1.12302	GRAMS	1	GRAB
	Permit requirement	1.10275	5.20744	GRAMS	1	
METHYL CHLORIDE	Sample measurement	<1.09245	<1.12302	GRAMS	1	GRAB
	Permit requirement	3.36952	9.03644	GRAMS	1	
HEXACHLORO BUTADIENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	4.34974	11.64016	GRAMS	1	
NITROBENZENE	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	68.52380	196.10610	GRAMS	1	
2-NITRO PHENOL	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	1.99108	7.07549	GRAMS	1	
4-NITRO PHENOL	Sample measurement	<1.09245	<1.12302	GRAMS	1	COMPOSITE
	Permit requirement	4.96238	17.64403	GRAMS	1	
4,6, DINITRO OHIOGRESOL	Sample measurement	<1.09245	<1.12302	GRAMS	1	COMPOSITE
	Permit requirement	2.38938	8.48507	GRAMS	1	

PVSC Form MR-1 Rev. 4/6/87 P1

842893989

WATER TREATMENT MONITORING BY PORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official A. DIEFFENBACH

Telephone# 201-589-3709

Monitoring Period					
08	01	93	08	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5790	5952
Total Flow-gal/day	32741	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	1.59286	5.02365	GRAMS	1	
TOLUENE	Sample measurement	0.03277	0.03369	GRAMS	1	GRAB
	Permit requirement	0.85770	2.26677	GRAMS	1	
TRICHLORO ETHYLENE	Sample measurement	<0.54622	<0.56151	GRAMS	1	GRAB
	Permit requirement	0.79643	2.11361	GRAMS	1	
VINYL CHLORIDE	Sample measurement	<1.09245	<1.12302	GRAMS	1	GRAB
	Permit requirement	2.97130	526870	GRAMS	1	
TOTAL CYANIDE	Sample measurement	<0.21849	<0.22460	GRAMS	1	GRAB
	Permit requirement	12.86544	36.75841	GRAMS	1	
TOTAL LEAD	Sample measurement	<0.21849	<0.22460	GRAMS	1	COMPOSITE
	Permit requirement	9.80224	21.13608	GRAMS	1	
TOTAL ZINC	Sample measurement	12.23544	12.57781	GRAMS	1	COMPOSITE
	Permit requirement	32.16361	79.94953	GRAMS	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *Aug 1 1993* TO: *Aug 31, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *30,596* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *125,090* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *155,686*

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *1,164,531* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *1,106,304* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *63,688* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *1,169,992* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *1,169,992* GALLONS.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF:

REGULATED FLOW FROM
DOREMUS AVENUE

0 GAL.

63,688 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,106,304 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
63,688 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

LIFT
STATION

OCPSF REGULATED FLOW: 63,688 GAL.

NON-OCPSF FLOW: 1,106,304 GAL.

TOTAL FLOW: 1,169,992 GAL.

SIGNED: Al Schieffelin

DATE: 9/17/93

842893992

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

1. Days unit operated during the month: 11
2. Average volume processed per day: 5790 gal.
3. Volume recieved from Albert Ave. plant: 63,688 gal.
4. Volume generated at Doremus Ave. plant: - 0 gal.
5. Total water treated during the month: 63,688 gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

AUG 1, 1993 to AUG 31, 1993

	<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1.	8/4	48,560	5823
2.	8/9	49,420	5926
3.	8/10	49,640	5952
4.	8/12	46,260	5547
5.	8/16	48,400	5803
6.	8/18	47540	5700
7.	8/18	48,020	5758
8.	8/20	48420	5806
9.	8/24	47,840	5736
10.	8/26	48,140	5772
11.	8/30	48,920	5866

TOTAL RECEIVED FROM ALBERT AVE

63,688 GAL

842893994

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR AUG 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER
Type Name and Title

9/17/93
Date

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
07	01	93	07	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day 5600 5885
 Total Flow-gal/day 37,635
 Method used _____

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	1.739	4.087	GRAMS	1	
CARBON TETRA CHLORIDE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	4.331	11.591	GRAMS	1	
CHLORO- BENZENE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	4.331	11.591	GRAMS	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<0.190	<0.1997	GRAMS	1	COMPOSITE
	Permit requirement	5.978	24.219	GRAMS	1	
HEXACHLORO BENZENE	Sample measurement	<0.190	<0.1997	GRAMS	1	COMPOSITE
	Permit requirement	5.978	24.219	GRAMS	1	
1,2, DICHLORO ETHANE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	5.490	17.508	GRAMS	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	0.671	1.800	GRAMS	1	
HEXACHLORO ETHANE	Sample measurement	<0.190	<0.1997	GRAMS	1	COMPOSITE
	Permit requirement	5.978	24.219	GRAMS	1	
1,1, DICHLORO ETHANE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	0.671	1.800	GRAMS	1	

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842893997

PRETREATMENT MONITORING PORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201 589 3707

Monitoring Period					
07	01	93	07	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5600	5885
Total Flow-gal/day	37,635	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	5.978	24.219	GRAMS	1	
ETHYL BENZENE	Sample measurement	0.0361	0.0379	GRAMS	1	GRAB
	Permit requirement	4.331	11.591	GRAMS	1	
METHYLENE CHLORIDE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	1.089	5.185	GRAMS	1	
METHYL CHLORIDE	Sample measurement	<0.190	<0.1997	GRAMS	1	GRAB
	Permit requirement	3.355	8.998	GRAMS	1	
HEXACHLORO BUTADIENE	Sample measurement	<0.190	<0.1997	GRAMS	1	COMPOSITE
	Permit requirement	4.331	11.591	GRAMS	1	
NITROBENZENE	Sample measurement	<0.190	<0.1997	GRAMS	1	COMPOSITE
	Permit requirement	68.234	195.277	GRAMS	1	
2-NITRO PHENOL	Sample measurement	<0.190	<0.1997	GRAMS	1	COMPOSITE
	Permit requirement	1.983	7.046	GRAMS	1	
4-NITRO PHENOL	Sample measurement	<0.950	<0.998	GRAMS	1	COMPOSITE
	Permit requirement	4.941	17.569	GRAMS	1	
4,6, DINITRO OH-CRESOL	Sample measurement	<0.950	<0.998	GRAMS	1	COMPOSITE
	Permit requirement	2.379	8.449	GRAMS	1	

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842893998

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
07	01	93	07	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5600	5885
Total Flow-gal/day	37,635	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gral
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	0.976	3.874	GRAMS	1	
CHLOROETHANE	Sample measurement	<0.190	<0.1996	GRAMS	1	GRAB
	Permit requirement	3.355	8.998	GRAMS	1	
CHLOROFORM	Sample measurement	0.019	0.1996	GRAMS	1	GRAB
	Permit requirement	3.386	9.913	GRAMS	1	
1,2, DICHLORO BENZENE	Sample measurement	<0.190	<0.01997	GRAMS	1	COMPOSITE
	Permit requirement	5.979	24.219	GRAMS	1	
1,3, DICHLORO BENZENE	Sample measurement	<0.190	<0.1996	GRAMS	1	COMPOSITE
	Permit requirement	4.331	11.591	GRAMS	1	
1,4, DICHLORO BENZENE	Sample measurement	<0.190	<0.1996	GRAMS	1	COMPOSITE
	Permit requirement	4.331	11.591	GRAMS	1	
1,1, DICHLORO ETHYLENE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	0.671	1.830	GRAMS	1	
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	0.763	2.013	GRAMS	1	
1,2, DICHLORO PROPANE	Sample measurement	<0.095	<0.0998	GRAMS	1	GRAB
	Permit requirement	5.979	24.219	GRAMS	1	

WASTEWATER TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
67	01	93	07	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5200</u>	<u>5885</u>
Total Flow-gal/day	<u>37,635</u>	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	0.0304	0.03195	GRAMS	1	
	Permit requirement	1.586	5002	GRAMS	1	GRAB
TOLUENE	Sample measurement	0.133	0.1398	GRAMS	1	
	Permit requirement	0.854	2.257	GRAMS	1	GRAB
TRICHLORO ETHYLENE	Sample measurement	<0.095	<0.0998	GRAMS	1	
	Permit requirement	0.793	2.105	GRAMS	1	GRAB
VINYL CHLORIDE	Sample measurement	<0.190	<0.1996	GRAMS	1	
	Permit requirement	2.959	5.246	GRAMS	1	GRAB
TOTAL CYANIDE	Sample measurement	<0.190	<0.1996	GRAMS	1	
	Permit requirement	12.811	36.603	GRAMS	1	GRAB
TOTAL LEAD	Sample measurement	<1.90	<1.9967	GRAMS	1	
	Permit requirement	9.761	21.046	GRAMS	1	COMPOSITE
TOTAL ZINC	Sample measurement	13.11	13.778	GRAMS	1	
	Permit requirement	32.028	79.612	GRAMS	1	COMPOSITE
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR JULY 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH
PLANT ENGINEER
Type Name and Title

8/09/93
Date

842894001

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *July 01* TO: *July 31, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *9,331* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *148,550* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *157,881* FT³

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *1,180,950* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *1,121,902* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *44,799* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *1,166,701* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *1,166,701* GALLONS.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

July 1993

1. Days unit operated during the month: *8*
2. Average volume processed per day: *5600* gal.
3. Volume recieved from Albert Ave. plant: *44,799* gal.
4. Volume generated at Doremus Ave. plant: *- 0 +* gal.
5. Total water treated during the month: *44,799* gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

JULY 01 to JULY 31, 1993

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 7/1/93	44,760	5367
2. 7/7/93	46,520	5578
3. 7/9/93	49,080	5885
4. 7/12/93	45,020	5398
5. 7/19/93	46,280	5549
6. 7/22/93	48,260	5787
7. 7/23/93	46,420	5566
8. 7/28/93	47,280	5669
Total Gallons Recieved From Albert Ave.:		<hr/> 44,799 GAL

842894004

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF: JULY 1993

REGULATED FLOW FROM
DOREMUS AVENUE

0 GAL.

44,799 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,121,902 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
44,799 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

LIFT
STATION

OCPSF REGULATED FLOW: 44,799 GAL.

NON-OCPSF FLOW: 1,121,902 GAL.

TOTAL FLOW: 1,166,701 GAL.

SIGNED:

DATE:

W. D. Dieffenbach
8/09/93

842894005

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD

July 20, 1993

Passaic Valley Sewerage Comm.,
600 Wilson Ave.
Newark, NJ 07105
Attn. Industrial Dept.

Dear Sir,

Attached you will find the completed MR-1 report for June 1993 for our facility at 400 Doremus Ave, Newark, NJ. If you require any additional information regarding this report please contact me at (201)-589-3716 during business hours.

Sincerely yours,

Arthur E. Dieffenbach
Plant Engineer

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official ARTHUR E. DIEFFENBACH Telephone# 201-589-3709

Monitoring Period					
06	01	93	06	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5719	5873
Total Flow-gal/day	31,402	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	<0.108	<0.111	GRAMS	1	GRAB
	Permit requirement	2.616	7.911	GRAMS	1	
CARBON TETRA CHLORIDE	Sample measurement	<0.108	<0.111	GRAMS	1	GRAB
	Permit requirement	6.518	22.435	GRAMS	1	
CHLORO- BENZENE	Sample measurement	<0.108	<0.111	GRAMS	1	GRAB
	Permit requirement	6.518	22.435	GRAMS	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<0.216	<0.222	GRAMS	1	COMPOSITE
	Permit requirement	8.996	48.878	GRAMS	1	
HEXACHLORO BENZENE	Sample measurement	<0.216	<0.222	GRAMS	1	COMPOSITE
	Permit requirement	8.996	48.878	GRAMS	1	
1,2, DICHLORO ETHANE	Sample measurement	<0.108	<0.111	GRAMS	1	GRAB
	Permit requirement	8.262	33.889	GRAMS	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<0.108	<0.111	GRAMS	1	GRAB
	Permit requirement	1.01	3.483	GRAMS	1	
HEXACHLORO ETHANE	Sample measurement	<0.216	<0.222	GRAMS	1	COMPOSITE
	Permit requirement	8.996	48.878	GRAMS	1	
1,1, DICHLORO ETHANE	Sample measurement	<0.108	<0.111	GRAMS	1	GRAB
	Permit requirement	1.01	3.483	GRAMS	1	

PVSC Form MR-1 Rev. 4/6/87 P1

842894008

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official ARTHUR C. DIEFFENBACH Telephone# 201 587 3707

Monitoring Period					
06	01	93	06	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5719</u>	<u>5873</u>
Total Flow-gal/day	<u>31,402</u>	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<0.108	<0.111	GRAMS	1	
	Permit requirement	8.996	48.878	GRAMS	1	GRAB
ETHYL BENZENE	Sample measurement	0.026	0.0266	GRAMS	1	
	Permit requirement	6.578	22.435	GRAMS	1	GRAB
METHYLENE CHLORIDE	Sample measurement	0.086	0.0889	GRAMS	1	
	Permit requirement	1.652	10.037	GRAMS	1	GRAB
METHYL CHLORIDE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	5.049	17.417	GRAMS	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	6.518	22.435	GRAMS	1	COMPOSITE
NITROBENZENE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	102.68	377.97	GRAMS	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	2.984	13.638	GRAMS	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	<1.08	<1.11	GRAMS	1	
	Permit requirement	7.436	34.007	GRAMS	1	COMPOSITE
4,6, DINITRO OHICRESOL	Sample measurement	<1.08	<1.11	GRAMS	1	
	Permit requirement	3.580	16.354	GRAMS	1	COMPOSITE

PVSC Form MR-1 Rev. 4 6/87 P1

842894009

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official ARTHUR DIETZENBACH Telephone# 201-589-3709

Monitoring Period					
06	01	93	06	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5719	5873
Total Flow-gal/day	31,402	
Method used		

Parameter		Mass Limit			No. of Samples	Sample type Comp./gal
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<0.108	<0.111	GRAMS	1	
	Permit requirement	1.469	7.498	GRAMS	1	GRAB
CHLOROETHANE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	5.049	17.417	GRAMS	1	GRAB
CHLOROFORM	Sample measurement	0.0216	0.022	GRAMS	1	
	Permit requirement	5.095	19.188	GRAMS	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	8.996	46.878	GRAMS	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	6.518	22.435	GRAMS	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	6.518	22.435	GRAMS	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	<0.108	<0.111	GRAMS	1	
	Permit requirement	1.01	3.542	GRAMS	1	GRAB
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<0.108	<0.111	GRAMS	1	
	Permit requirement	1.148	3.897	GRAMS	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	<0.108	<0.111	GRAMS	1	
	Permit requirement	8.996	46.878	GRAMS	1	GRAB

PVSC Form MR-1 Rev. 4 6/87 P1

842894010

PERMIT TREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official ARTHUR DIEFFENBACH

Telephone# 201-589-3709

Monitoring Period					
06	01	93	06	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5719	5873
Total Flow-gal/day	31,402	
Method used		

Parameter		Mass Limit			No. of Samples	Sample ty, Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	0.0091	0.093	GRAMS	1	
	Permit requirement	2.387	9.683	GRAMS	1	GRAB
TOLUENE	Sample measurement	0.0627	0.064	GRAMS	1	
	Permit requirement	1.285	4.369	GRAMS	1	GRAB
TRICHLORO ETHYLENE	Sample measurement	<0.108	<0.111	GRAMS	1	
	Permit requirement	1.893	4.074	GRAMS	1	GRAB
VINYL CHLORIDE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	4.452	10.155	GRAMS	1	GRAB
TOTAL CYANIDE	Sample measurement	<0.216	<0.222	GRAMS	1	
	Permit requirement	19.278	70.848	GRAMS	1	GRAB
TOTAL LEAD	Sample measurement	<2.063	<2.221	GRAMS	1	
	Permit requirement	14.688	40.738	GRAMS	1	COMPOSITE
TOTAL ZINC	Sample measurement	17.74	18.218	GRAMS	1	
	Permit requirement	48.195	154.094	GRAMS	1	COMPOSITE
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4 6/87 P1

842894011

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Required

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414, 558 SUBPART E FOR JUNE 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach

Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER

Type Name and Title

7/20/93

Date

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

JUNE 1, 1993 to JUNE 30, 1993

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 6/01/93	47,800	5731
2. 6/03/93	47,480	5693
3. 6/07/93	48,820	5854
4. 6/09/93	48,980	5873
5. 6/12/93	47,680	5717
6. 6/16/93	42,820	5134
7. 6/21/93	48,240	5784
8. 6/24/93	48,580	5825
9. 6/26/93	48,860	5859
10.		
	TOTAL	51,470 GAL

842894014

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: JUNE 1, 1993 TO: JUNE 30, 1993

WATER USED @ 390 DOREMUS AVE. ----- 13,590 CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- 111,740 CU. FT.

TOTAL WATER USED AT THE PLANT ----- 125,330

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- 937,468 GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- 890,595 GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- 51,480 GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- 942,065 GALLONS.

NET DISCHARGE TO P.V.S.C. ----- 942,065 GALLONS.

Reichnold Chemical Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF: JUNE 1993

REGULATED FLOW FROM
DOREMUS AVENUE

- 0 - GAL.

51,470 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
890,595 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
51,470 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

LIFT
STATION

OCPSF REGULATED FLOW: 51,470 GAL.

NON-OCPSF FLOW: 890,595 GAL.

TOTAL FLOW: 941, GAL.

SIGNED: Alt Dieffenbach

DATE: 7/20/93

842894016

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

JUNE 1993

1. Days unit operated during the month: *9*
2. Average volume processed per day: *5719* gal.
3. Volume recieved from Albert Ave. plant: *51,470* gal.
4. Volume generated at Doremus Ave. plant: *- 0* gal.
5. Total water treated during the month: *51,470* gal.

$$\begin{aligned} \text{Avg Flow} &= 5,719 \times 10^3 \text{ GAL} \times \frac{8.34 \text{ lb}}{\text{GAL}} \times \frac{4.586 \times 10^{-3} \text{ GM}}{\text{lb}} = 21.635 \times 10^6 \text{ GRAMS} \\ &= 0.021635 \times 10^9 \text{ GM.} \end{aligned}$$

$$\begin{aligned} \text{MAX FLOW} &= 5,873 \times 10^3 \text{ GAL} \times 8.34 \times 4.586 \times 10^{-3} = 22,2177 \times 10^6 \\ &= .0222177 \times 10^9 \end{aligned}$$

Reichhold Chemicals, Inc.

Coating Polymers & Resins
46 Albert Avenue
Newark, New Jersey 07105

P 236 080 565

**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

June 1

PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 Wilson Avenue
Newark, NJ 07105
Attn.: Industrial Dept.

Dear Sirs:

Enclosed you will find a completed MR-1 report
our facility at 400 Doremus Avenue, Newark, N
any additional information regarding this rep
me at (201) 589-3716 during business hours.

Sincerely,

CC

Arthur E. Dieffenbach
Plant Engineer

PS Form 3800, June 1991

To: PVSC, Industrial Dept.	
600 Wilson Avenue	
Newark, NJ 07105	
Postage	\$
Insurance	
Registered Mail	
Return Receipt	
Signature	
Date	
Postmark	
Postage & Fees	\$
Postmark Date	

Thank you for using Return Receipt Service

I also wish to receive the following services (for an extra fee):	
1. <input type="checkbox"/> Addressee's Address	
2. <input type="checkbox"/> Restricted Delivery	
Consult postmaster for fee.	
3. Article Addressed to:	4a. Article Number
PVSC 600 Wilson Avenue Newark, NJ 07105 Attn.: Industrial Dept.	P 236 080 565
4b. Service Type	<input type="checkbox"/> Insured
<input type="checkbox"/> Registered	<input type="checkbox"/> COD
<input checked="" type="checkbox"/> Certified	<input type="checkbox"/> Return Receipt for
<input type="checkbox"/> Express Mail	<input type="checkbox"/> Merchandise
5. Signature (Addressee)	
6. Signature (Agent)	
8. Addressee's Address (Only if requested)	

PS Form 3811, December 1991 *U.S. GPO: 1992-323-402 DOMESTIC RETURN RECEIPT

842894018

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
05	01	93	05	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5657</u>	<u>5892</u>
Total Flow-gal/day	<u>20062</u>	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample typ Comp./grat
		Average	Maximum	Units		
BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894019

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
05	01	93	05	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5657</u>	<u>5892</u>
Total Flow-gal/day	<u>20062</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB
ETHYL BENZENE	Sample measurement	10	10	PPB	1	
	Permit requirement	142	380	PPB	1	GRAB
METHYLENE CHLORIDE	Sample measurement	16	16	PPB	1	
	Permit requirement	36	170	PPB	1	GRAB
METHYL CHLORIDE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
NITROBENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	2237	6402	PPB	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	<10	<10	PPB	1	
	Permit requirement	65	231	PPB	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	<50	<50	PPB	1	
	Permit requirement	162	576	PPB	1	COMPOSITE
4,6, DINITRO OHIOGRESOL	Sample measurement	<50	<50	PPB	1	
	Permit requirement	78	277	PPB	1	COMPOSITE

PVSC Form MR-1 Rev. 4 6/87 P1

842894020

RETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
05	01	93	05	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5657</u>	<u>5892</u>
Total Flow-gal/day	<u>20062</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	32	127	PPB	1	
CHLOROETHANE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	110	295	PPB	1	
CHLOROFORM	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	111	325	PPB	1	
1,2, DICHLORO BENZENE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,3, DICHLORO BENZENE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	142	380	PPB	1	
1,4, DICHLORO BENZENE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	142	380	PPB	1	
1,1, DICHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	22	60	PPB	1	
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	25	66	PPB	1	
1,2, DICHLORO PROPANE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	196	794	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894021

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
05	01	93	05	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5657</u>	<u>5892</u>
Total Flow-gal/day	<u>20062</u>	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	52	164	PPB	1	
TOLUENE	Sample measurement	<u>11</u>	<u>11</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	28	74	PPB	1	
TRICHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	26	69	PPB	1	
VINYL CHLORIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	97	172	PPB	1	
TOTAL CYANIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	420	1200	PPB	1	
TOTAL LEAD	Sample measurement	<u><100</u>	<u><100</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	320	690	PPB	1	
TOTAL ZINC	Sample measurement	<u>920</u>	<u>920</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	1050	2610	PPB	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

MAY 1993

1. Days unit operated during the month: 9
2. Average volume processed per day: 5657 gal.
3. Volume recieved from Albert Ave. plant: 50914 gal.
4. Volume generated at Doremus Ave. plant: - 0 - 0 gal.
5. Total water treated during the month: 50914 gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

MAY 1 1993 to MAY 31, 1993

	<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1.	5/01/93	48,260	5814
2.	5/05/93	42,300	5096
3.	5/07/93	47,760	5754
4.	5/13/93	48,160	5802
5.	5/17/93	47,180	5684
6.	5/19/93	47,840	5764
7.	5/22/93	45,260	5453
8.	5/25/93	46,940	5655
9.	5/28/93	48,900	5892
Total Gallons Recieved From Albert Ave.:			<u>50914 GAL</u>

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF: MAY 1993

REGULATED FLOW FROM
DOREMUS AVENUE

0

GAL.

50914

GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
571,010 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
50914 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: 50,914 GAL.

NON-OCPSF FLOW: 571,010 GAL.

TOTAL FLOW: 621,924 GAL.

SIGNED:

DATE:

6/09/93

842894026

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *MAY 1, 1993* TO: *MAY 31, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *5426* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *74930* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *80356*

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *601,063* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *571,010* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *50914* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *621,924* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *621,924* GALLONS.

842894027

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR MAY 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIETTENBACH

PLANT ENGINEER

Type Name and Title

6/09/93

Date

Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD

MAY 20, 1993

Passaic Valley Sewerage Comm.
600 Wilson Ave.
Newark, NJ 07105
Attn. Industrial Dept.

Dear Sir,

Attached you will find the completed MR-1 report for ^{April} ~~May~~ 1993, for our facility at 400 Doremus Ave, Newark, NJ. If you require any additional information regarding this report please contact me at (201)-589-3716 during business hours.

Sincerely yours,

Arthur E. Dieffenbach
Arthur E. Dieffenbach
Plant Engineer

PRETREATMENT MONITORING PORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
04	01	93	04	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5040</u>	<u>5795</u>
Total Flow-gal/day	<u>21,956</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894030

PRETREATMENT MONITORING PORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
04	01	93	04	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5040</u>	<u>5749</u>
Total Flow-gal/day	<u>21,956</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>1</u>	<u>PPB</u>	
	Permit requirement	196	794	PPB	1	GRAB
ETHYL BENZENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	142	380	PPB	1	GRAB
METHYLENE CHLORIDE	Sample measurement	<u>13</u>	<u>13</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	36	170	PPB	1	GRAB
METHYL CHLORIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	110	295	PPB	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	142	380	PPB	1	COMPOSITE
NITROBENZENE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	2237	6402	PPB	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	65	231	PPB	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	<u><50</u>	<u><50</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	162	576	PPB	1	COMPOSITE
4,6, DINITRO OH-CRESOL	Sample measurement	<u><50</u>	<u><50</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	78	277	PPB	1	COMPOSITE

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842894031

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
04	01	93	04	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable) _____					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5040	5749
Total Flow-gal/day	21,956	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	32	127	PPB	1	
CHLOROETHANE	Sample measurement	<10	<10	PPB	1	GRAB
	Permit requirement	110	295	PPB	1	
CHLOROFORM	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	111	325	PPB	1	
1,2, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,3, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	142	380	PPB	1	
1,4, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	142	380	PPB	1	
1,1, DICHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	60	PPB	1	
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	25	66	PPB	1	
1,2, DICHLORO PROPANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	196	794	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894032

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
04	01	93	04	30	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5040	5749
Total Flow-gal/day	21,956	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	52	164	PPB	1	
TOLUENE	Sample measurement	3.1	3.1	PPB	1	GRAB
	Permit requirement	28	74	PPB	1	
TRICHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	26	69	PPB	1	
VINYL CHLORIDE	Sample measurement	<10	<10	PPB	1	GRAB
	Permit requirement	97	172	PPB	1	
TOTAL CYANIDE	Sample measurement	<10	<10	PPB	1	GRAB
	Permit requirement	420	1200	PPB	1	
TOTAL LEAD	Sample measurement	148	148	PPB	1	COMPOSITE
	Permit requirement	320	690	PPB	1	
TOTAL ZINC	Sample measurement	695	695	PPB	1	COMPOSITE
	Permit requirement	1050	2610	PPB	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4 6/87 P1

842894033

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

April 1993

1. Days unit operated during the month: **9**
2. Average volume processed per day: **5040** gal.
3. Volume recieved from Albert Ave. plant: **45366** gal.
4. Volume generated at Doremus Ave. plant: **0** gal.
5. Total water treated during the month: **45366** gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

April 1, 1993 to April 30, 1993

Date of Shipment	Lbs. of Water	Gallons of Water
1. 4/1/93	46,440	5595
2. 4/7/93	35,420	4267
3. 4/7/93	36,240	4366
4. 4/14/93	36,260	4368
5. 4/16/93	40,200	4843
6. 4/22/93	47,460	5718
7. 4/23/93	41,300	4976
8. 4/26/93	45,520	5484
9. 4/28/93	47,720	5749
Total Gallons Recieved From Albert Ave.:		<u>45,366</u>

842894036

Reichhold Chemical Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF: April 1993

REGULATED FLOW FROM
DOREMUS AVENUE

- 0 - GAL.

45366 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
613,325 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
45366 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

LIFT
STATION

OCPSF REGULATED FLOW: 45366 GAL.

NON-OCPSF FLOW: 613,325 GAL.

TOTAL FLOW: 658,691 GAL.

SIGNED: Al Dieffenbach
DATE: 5/7/93

842894037

H MONITORING AND
AMPLING POINT

SER CHARGES

PLANT DISCHARGE TO PVSC

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *APRIL 1* TO: *APRIL 30, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *4431* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *81880* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *86311*

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *645,606* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *613,325* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *45,366* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *658691* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *658691* GALLONS.

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Not Required

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH
40 CFR 414.558 SUBPART E FOR

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER
Type Name and Title

5/12/93
Date

Reichhold Chemicals, Inc.

Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

REICHHOLD

April 14, 1993


Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, NJ 07105
Attn: Industrial Dept.

Dear Sirs:

Attached you will find our completed MR-1 report for March 1993 for discharge from our facility at 400 Doremus Avenue.

If you have any questions regarding this report, please contact me at (201) 589-3816 during business hours.

Sincerely yours,


Arthur E. Dieffenbach
Plant Engineer

PRETREATMENT MONITORING REPORT

842894041

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
03	01	93	03	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5605	5773
Total Flow-gal/day	49,758	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PRETREATMENT MONITORING REPORT

842894042

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
03	01	93	03	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5605</u>	<u>5773</u>
Total Flow-gal/day	<u>49,758</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB
ETHYL BENZENE	Sample measurement	1.2	1.2	PPB	1	
	Permit requirement	142	380	PPB	1	GRAB
METHYLENE CHLORIDE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	36	170	PPB	1	GRAB
METHYL CHLORIDE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
NITROBENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	2237	6402	PPB	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	<10	<10	PPB	1	
	Permit requirement	65	231	PPB	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	<50	<50	PPB	1	
	Permit requirement	162	576	PPB	1	COMPOSITE
4,6, DINITRO ORHCRESOL	Sample measurement	<50	<50	PPB	1	
	Permit requirement	78	277	PPB	1	COMPOSITE

PRETREATMENT MONITORING REPORT

842894043

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
03	01	93	03	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5605</u>	<u>5773</u>
Total Flow-gal/day	<u>49,758</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
1,1,2, TRI- CHLOROETHANE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	32	127	PPB	1	GRAB
CHLOROETHANE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
CHLOROFORM	Sample measurement	<5	<5	PPB	1	
	Permit requirement	111	325	PPB	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	196	794	PPB	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	22	60	PPB	1	GRAB
1,2, TRANS DI- CHLOROETHYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	25	66	PPB	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB

PRETREATMENT MONITORING REPORT

842894044

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
03	01	93	03	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5605</u>	<u>5773</u>
Total Flow-gal/day	<u>49,758</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	52	164	PPB	1	
TOLUENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	28	74	PPB	1	
TRICHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	26	69	PPB	1	
VINYL CHLORIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	97	172	PPB	1	
TOTAL CYANIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	420	1200	PPB	1	
TOTAL LEAD	Sample measurement	<u><100</u>	<u><100</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	320	690	PPB	1	
TOTAL ZINC	Sample measurement	<u>516</u>	<u>516</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	1050	2610	PPB	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

1992

1. Days unit operated during the month: 7
2. Average volume processed per day: 5605 gal.
3. Volume recieved from Albert Ave. plant: 39,239 gal.
4. Volume generated at Doremus Ave. plant: - 0 - 4 gal.
5. Total water treated during the month: 39,239 gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

MARCH 1, 1993 to MARCH 31, 1993

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 3/01/93	45,960	5537
2. 3/07/93	47,080	5672
3. 3/11/93	47,360	5706
4. 3/17/93	45,620	5496
5. 3/19/93	44,600	5373
6. 3/23/93	47,920	5773
7. 3/29/93	47,160	5682
Total Gallons Recieved From Albert Ave.:		<u>39,239</u>

Reichhold Chemical Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: MARCH 1993

REGULATED FLOW FROM
DOREMUS AVENUE

- 0 - GAL.

39 239 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,503,260 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
39,239 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

LIFT
STATION

OCPSF REGULATED FLOW: 39,239 GAL.

NON-OCPSF FLOW: 1,503,260 GAL.

TOTAL FLOW: 1,542,499 GAL.

SIGNED: Al Shefferbach

DATE: 4/06/93

PH MONITORING AND
SAMPLING POINT
USER CHARGES

PLANT DISCHARGE TO PVSC

842894048

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *MARCH 1, 1993* TO: *MARCH 31, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *1,888* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *209,660* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *211,548* Ft^3

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *1,582,379* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *1,503,260* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *39,239* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *1,542,499* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *1,542,499* GALLONS.

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR MARCH 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dietfenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIETFFENBACH

PLANT ENGINEER
Type Name and Title

4/16/93
Date

- Reichhold Chemicals, Inc.
Coating Polymers & Resins Divis
400 Doremus Avenue
Newark, NJ 07105

**Certified Mail Receipt**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

REICHHOLD

Passaic Valley Sewerage ()
600 Wilson Avenue
Newark, NJ 07105
Attn: Industrial Dept.

PS Form 3800, June 1990

Sent to	
Passaic Valley Sewerage Comm.	
Street & No.	
600 Wilson Ave.	
PO, State & ZIP Code	
Newark, NJ 07105	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date	

93

Dear Sirs,

Attached you will find our completed MR-1 report for February 1993 for discharge from our facility at 400 Doremus Avenue.

ling this report, please feel free
ng business hours.

SENDER: • Complete items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. • Complete items 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. • Print your name and address on the reverse of this form so that we can return this card to you. • Attach this form to the front of the mailpiece, or on the back if space does not permit. • Write "Return Receipt Requested" on the mailpiece below the article number. • The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Passaic Valley Sewerage Comm. 600 Wilson Avenue Newark, NJ 07105		4a. Article Number 4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express <input type="checkbox"/> Insured <input type="checkbox"/> COD <input type="checkbox"/> Return Receipt for Merchandise	
5. Signature (Addressee) 6. Signature (Agent)		7. Date of Delivery MAR 16 1993 8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, November 1980 * U.S. GPO: 1981-287-088 DOMESTIC RETURN RECEIPT

Sincerely Yours,

Arthur E. Dieffenbach
 Arthur E. Dieffenbach
 Plant Engineer

842894051

Name Reichhold Chemicals Inc.
 Mailing Address 400 Doremus Ave.
 Facility Location Newark, N.J. 07105
 Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
 Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
02	01	93	02	28	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period
 Regulated flow-gal/day AVG 5696 MAX 6048
 Total Flow-gal/day 50,165
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894052

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
02	01	93	02	28	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day 5696 AVG MAX
Total Flow-gal/day 50165
Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	196	794	PPB	1	
ETHYL BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
METHYLENE CHLORIDE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	36	170	PPB	1	
METHYL CHLORIDE	Sample measurement	<10	<10	PPB	1	GRAB
	Permit requirement	110	295	PPB	1	
HEXACHLORO BUTADIENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	142	380	PPB	1	
NITROBENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	2237	6402	PPB	1	
2-NITRO PHENOL	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	65	231	PPB	1	
4-NITRO PHENOL	Sample measurement	<50	<50	PPB	1	COMPOSITE
	Permit requirement	162	576	PPB	1	
4,6, DINITRO PHENOL	Sample measurement	<50	<50	PPB	1	COMPOSITE
	Permit requirement	78	277	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894053

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201

Contact Official _____ Telephone# 201-589-3709

Monitoring Period					
02	01	93	02	28	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5696</u>	<u>6048</u>
Total Flow-gal/day	<u>50,165</u>	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	32	127	PPB	1	GRAB
CHLOROETHANE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
CHLOROFORM	Sample measurement	<5	<5	PPB	1	
	Permit requirement	111	325	PPB	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	196	794	PPB	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	22	60	PPB	1	GRAB
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	25	66	PPB	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB

PVSC Form MR-1 Rev. 4 6/87 P1

842894054

PRETREATMENT MONITORING REPORT

842894055

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
02	01	93	02	28	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5696</u>	<u>6048</u>
Total Flow-gal/day	<u>50165</u>	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	52	164	PPB	1	
TOLUENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	28	74	PPB	1	
TRICHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	26	69	PPB	1	
VINYL CHLORIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	97	172	PPB	1	
TOTAL CYANIDE	Sample measurement	<u><10.0</u>	<u><10.0</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	420	1200	PPB	1	
TOTAL LEAD	Sample measurement	<u><100</u>	<u><100</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	320	690	PPB	1	
TOTAL ZINC	Sample measurement	<u>162</u>	<u>162</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	1050	2610	PPB	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

FEBRUARY 1993

1. Days unit operated during the month: 5
2. Average volume processed per day: 5696 gal.
3. Volume recieved from Albert Ave. plant: 28478 gal.
4. Volume generated at Doremus Ave. plant: — 0 gal.
5. Total water treated during the month: 28478 gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

FEB 1, 199~~2~~ to *FEB 28,* 199~~2~~

	<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1.	2/6/93	44,360	5345
2.	2/12/93	47,380	5680
3.	2/17/93	48,180	5805
4.	2/22/93	50,200	6048
5.	2 /26/93	46480	5600

Total Gallons Recieved From Albert Ave.: 28,478

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: FEB 1993

REGULATED FLOW FROM
DOREMUS AVENUE

- 0 - GAL.

28,478 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,376,148 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
28478 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

PLANT DISCHARGE TO PVSC

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

OCPSF REGULATED FLOW: 28478 GAL.

NON-OCPSF FLOW: 1,376,148 GAL.

TOTAL FLOW: 1,404,626 GAL.

LIFT
STATION

SIGNED:

Al Pfeiffer

DATE:

3/09/93

842894059

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM:	TO:
WATER USED @ 390 DOREMUS AVE. -----	3220 CU. FT.
WATER USED @ 400 DOREMUS AVE. -----	190,440 CU. FT.
TOTAL WATER USED AT THE PLANT -----	193,660 Fr^3
CONVERSION FACTOR -----	X 7.48 GAL/CU. FT.
WATER USAGE -----	1,448,577 GALLONS.
5% EVAPORATION -----	X 0.95
NET WATER USAGE -----	1,376,148 GALLONS.
PROCESS WATER RECEIVED FROM ALBERT AVE. PLANT -----	28,478 GALLONS.
TOTAL WATER INTO DOREMUS AVE. -----	1,404,626 GALLONS.
NET DISCHARGE TO P.V.S.C. -----	1,404,626 GALLONS.

Certification of Non-use if applicable (use additional sheets)

Not Required

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR FEB 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. DiEffenbach

Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIETFFENBACH

Type Name and Title
PLANT ENGINEER

3/09/93

Date



Snap
Off

CARBONL S
FORM 3801

NO
CARBON
REQUIRED

RAPID LETTER

NOTE: Send White and Pink copies.
Sender retains Canary copy
TRIPLICATE

TO PASSAIC VALLEY SEWERAGE COMM

SUBJECT

REICHOLD CHEMICALS INC MR-1 REPORT JAN 1993

MESSAGE

RECEIVED FROM

DATE 2/22/93

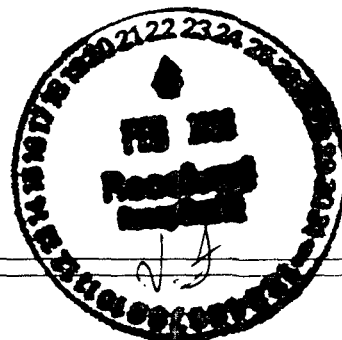
REICHOLD CHEMICALS INC - MR-1 REPORT FOR
JAN 1993 FOR FACILITY AT 400 DOREMUS AVE
NEWARK NJ

SIGNED

DATE

REPLY

SIGNED



TOPS FORM 3801

RECIPIENT: REPLY ON PINK COPY — RETAIN WHITE COPY
SENDER ... RETAIN THIS COPY

842894062

PRETREATMENT MONITORING REPORTName Reichhold Chemicals Inc.Mailing Address 400 Doremus Ave.Facility Location Newark, N.J. 07105Category & Subpart 40 CFR 414.55 & EOutlet# 20406320-44100-0201Contact Official A. DIEFFENBACHTelephone# 201-589-3709

Monitoring Period					
01	01	93	01	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5593</u>	<u>5731</u>
Total Flow-gal/day	<u>35576</u>	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample typ. Comp./grat
		Average	Maximum	Units		
BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	<10	<10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894063

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
01	01	93	01	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day 5593 5761
 Total Flow-gal/day 33,576
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB
ETHYL BENZENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	142	380	PPB	1	GRAB
METHYLENE CHLORIDE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	36	170	PPB	1	GRAB
METHYL CHLORIDE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
NITROBENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	2237	6402	PPB	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	<10	<10	PPB	1	
	Permit requirement	65	231	PPB	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	<50	<50	PPB	1	
	Permit requirement	162	576	PPB	1	COMPOSITE
4,6, DINITRO OH-CRESOL	Sample measurement	<50	<50	PPB	1	
	Permit requirement	78	277	PPB	1	COMPOSITE

PVSC Form MR-1 Rev. 4 6/87 P1

842894064

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
01	01	93	01	31	93
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable) _____					

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	5593	5701
Total Flow-gal/day	35326	
Method used	_____	

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	32	127	PPB	1	GRAB
CHLOROETHANE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
CHLOROFORM	Sample measurement	<5	<5	PPB	1	
	Permit requirement	111	325	PPB	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	196	794	PPB	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	22	60	PPB	1	GRAB
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	25	66	PPB	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB

PVSC Form MR-1 Rev. 4 6/87 P1

842894065

PRETREATMENT MONITORING REPORT

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official _____

Telephone# 201-589-3709

Monitoring Period					
<u>01</u>	<u>01</u>	<u>93</u>	<u>01</u>	<u>31</u>	<u>93</u>
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	<u>5543</u>	<u>5701</u>
Total Flow-gal/day	<u>38546</u>	
Method used		

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	52	164	PPB	1	GRAB
TOLUENE	Sample measurement	<u>14</u>	<u>14</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	28	74	PPB	1	GRAB
TRICHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	26	69	PPB	1	GRAB
VINYL CHLORIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	97	172	PPB	1	GRAB
TOTAL CYANIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	420	1200	PPB	1	GRAB
TOTAL LEAD	Sample measurement	<u><100</u>	<u><100</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	320	690	PPB	1	COMPOSITE
TOTAL ZINC	Sample measurement	<u>205</u>	<u>205</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	1050	2610	PPB	1	COMPOSITE
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4 6/87 P1

842894066

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

JANUARY 1993

1. Days unit operated during the month: 6
2. Average volume processed per day: 5573 gal.
3. Volume recieved from Albert Ave. plant: 33,555 gal.
4. Volume generated at Doremus Ave. plant: 0 gal.
5. Total water treated during the month: 33,555 gal.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

JANUARY 1, 1993 to JAN 31, 1993

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 1/6/93	46,740	5631
2. 1/11/93	47,320	5701
3. 1/19/93	47,040	5667
4. 1/23/93	45,900	5530
5. 1/23/93	46,000	5542
6. 1/27/93	45,520	5484

Total Gallons Recieved From Albert Ave.: 33,555

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED

FOR MONTH OF: JANUARY 1993

REGULATED FLOW FROM
DOREMUS AVENUE

- 0 - GAL.

33,555

GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,162,918 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
33,555 GALLONS

PRE TREATMENT SYSTEM

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: 33,555 GAL.

NON-OCPSF FLOW: 1,162,918 GAL.

TOTAL FLOW: 1,196,473 GAL.

SIGNED: Al DiStefano

DATE: 2/19/93

842894070

PH MONITORING AND
SAMPLING POINT

USER CHARGES

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: *JAN 1, 1993* TO: *JAN 31, 1993*

WATER USED @ 390 DOREMUS AVE. ----- *3233* CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- *160420* CU. FT.

TOTAL WATER USED AT THE PLANT ----- *163,653* CU. FT.

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- *1,224,124* GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- *1,162,918* GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- *33,555* GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- *1,196,473* GALLONS.

NET DISCHARGE TO P.V.S.C. ----- *1,196,473* GALLONS.

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

MEET LIMITS & IN COMPLIANCE WITH

40 CFR 414.558 SUBPART E FOR JANUARY 1993

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER
Type Name and Title

2/19/93
Date

CHEMTECH

CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 11/23/93

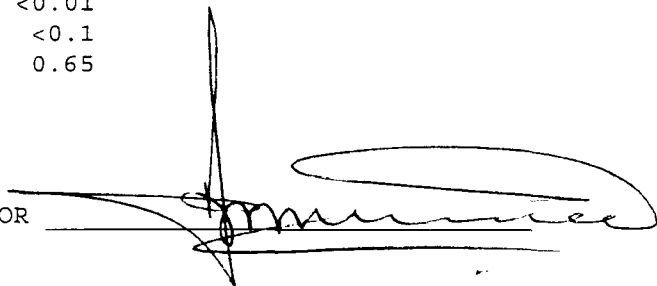
(Page 1 of 1)

SAMPLE				DELIVERY TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX
21266	11/09/93		CLIENT	11/09/93	0900 WW

CLIENT STATION ID: EFFLUENT
LAB #: 21266

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.65

LABORATORY DIRECTOR



CHAIN OF CUSTODY RECORD

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify)		2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved		3. PROJ. NO.		PROJECT NAME REICHOLD CHEMICAL										SAMPLING CO.			
				Sampler (Name)		E ANALYSIS METALS CU BNA VOC												ANALYTICAL REMARKS	
				Sampler Signature															
				4. Date Shipped	Carrier														
		Airbill Number																	
Sample Numbers	A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description		1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection		G Sample Condition On Receipt	H CHEMTECH Tracking Number	
1.			4	EFFLUENT		X	X	X								/ /19	A P		
2.																/ /19	A P		
3.																/ /19	A P		
4.																/ /19	A P		
5.																/ /19	A P		
6.																/ /19	A P		
7.																/ /19	A P		
8.																/ /19	A P		
9.																/ /19	A P		
10.																/ /19	A P		
11.																/ /19	A P		
12.																/ /19	A P		
13.																/ /19	A P		
14.																/ /19	A P		
15.																/ /19	A P		
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Shipment complete? Y N		Page _____ of _____		REMARKS							
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time											
					[Signature]			0900		11/9/13									

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 11/16/93

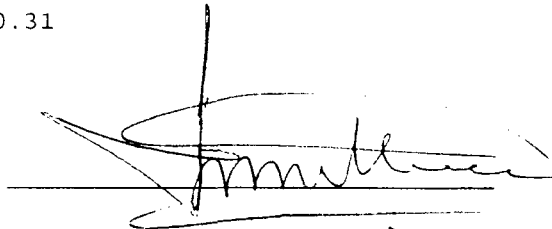
(Page 1 of 1)

LAB No.	DATE	TIME	SAMPLER	DELIVERY TO LAB	DATE	TIME MATRIX
20560	10/15/93		CLIENT		10/19/93	0900 WW

CLIENT STATION ID: EFFLUENT
LAB #: 20560

CYANIDE, TOTAL	mg/L	0.04
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.31

LABORATORY DIRECTOR



DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEMICAL, INC.Project No.: 2922

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O20560Sample wt/vol: 5 (g/mL) MLLab File ID: V2797.D

Level: (low/med) _____

Date Received: 10/15/93% Moisture: not dec. 100Date Analyzed: 10/19/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	10		
67-64-1	Acetone	22		
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	0.4		J
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
X 108-88-3	Toluene	14		
108-90-7	Chlorobenzene	5		U
X 100-41-4	Ethylbenzene	32		
X 100-42-5	Styrene	5		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Contract: REICHHOLD CHEMICAL, INC.

Site:

Location:

Group:

Lab Sample ID: O20560

Lab File ID: V2797.D

Date Received: 10/15/93

Date Analyzed: 10/19/93

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg)

ug/L

Q

Page 2 of 2

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC
 Project No.: 2922 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O20560
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1615.D
 Level: (low/med) _____ Date Received: 10/19/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 10/20/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/2/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	92		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
95-50-1	1,2-Dichlorobenzene	10		U
100-51-6	Benzyl alcohol	7.3		J
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	5		J
108-60-1	bis(2-chloroisopropyl)ether	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
65-85-0	Benzoic Acid	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	6.1		J
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC
 Project No.: 2922 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O20560
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1615.D
 Level: (low/med) _____ Date Received: 10/19/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 10/20/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/2/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	4.8		J
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

CHAIN OF CUSTODY RECORD

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify)	2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved	3. PROJ. NO.	PROJECT NAME WASTE WATER STRIPPER										SAMPLING CO. RECHARD CARR				
		Sampler (Name) A. DIEFFENBACH		E ANALYSIS BTA VOA CD- CU, Pb												ANALYTICAL REMARKS	
		Sampler Signature <i>[Signature]</i>															
		4. Date Shipped	Carrier														
Airbill Number																	
Sample Numbers	A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description	1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection		G Sample Condition On Receipt	H CHEMTECH Tracking Number
1.															/ /19	A P	
2.															/ /19	A P	
3.															/ /19	A P	
4.															/ /19	A P	
5.															/ /19	A P	
6.															/ /19	A P	
7.															/ /19	A P	
8.															/ /19	A P	
9.															/ /19	A P	
10.															/ /19	A P	
11.															/ /19	A P	
12.															/ /19	A P	
13.															/ /19	A P	
14.															/ /19	A P	
15.															/ /19	A P	
Relinquished by: (Signature) <i>[Signature]</i>		Date / Time 4/15/92		Received by: (Signature) <i>[Signature]</i>		Shipment complete? Y N		Page of		REMARKS							
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) <i>[Signature]</i>		Date / Time 6/19/93 0900											



LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 10/13/93

(Page 1 of 1)

LAB No.	DATE	SAMPLE TIME	SAMPLER CLIENT	DELIVERY TO LAB DATE	TIME MATRIX
19040	09/13/93			09/14/93	WW

CLIENT STATION ID: EFFLUENT
LAB #: 19040

CYANIDE, TOTAL	mg/L	< 0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.73

LABORATORY DIRECTOR

DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

IB
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC
 Project No.: 2801 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O19040
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1487.D
 Level: (low/med) _____ Date Received: 9/13/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 9/16/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	10		U
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
95-50-1	1,2-Dichlorobenzene	10		U
100-51-6	Benzyl alcohol	18		
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	10		U
108-60-1	bis(2-chloroisopropyl)ether	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	2.5		J
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
65-85-0	Benzoic Acid	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
X 91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC

Project No.: 2801 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O19040

Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1487.D

Level: (low/med) _____ Date Received: 9/13/93

% Moisture: 100 decanted: (Y/N): N Date Extracted: 9/16/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 9/26/93

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEM., INCProject No.: 2801

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O19040Sample wt/vol: 1 (g/mL) MLLab File ID: V2535.D

Level: (low/med) _____

Date Received: 9/13/93% Moisture: not dec. 100Date Analyzed: 9/18/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	50		UD
74-83-9	Bromomethane	50		UD
75-01-4	Vinyl Chloride	50		UD
75-00-3	Chloroethane	50		UD
75-09-2	Trichlorofluoromethane	50		UD
75-09-2	Methylene Chloride	25		UD
67-64-1	Acetone	520		D
75-15-0	Carbon Disulfide	25		UD
75-35-4	1,1-Dichloroethene	25		UD
75-34-4	1,1-Dichloroethane	25		UD
540-59-0	1,2-Dichloroethene (total)	25		UD
67-66-3	Chloroform	25		UD
107-06-2	1,2-Dichloroethane	25		UD
78-93-3	2-Butanone	45		JD
71-55-6	1,1,1-Trichloroethane	25		UD
56-23-5	Carbon Tetrachloride	25		UD
75-27-4	Bromodichloromethane	25		UD
78-87-5	1,2-Dichloropropane	25		UD
10061-01-5	cis-1,3-Dichloropropene	25		UD
79-01-6	Trichloroethene	44		D
124-48-1	Dibromochloromethane	25		UD
79-00-5	1,1,2-Trichloroethane	25		UD
71-43-2	Benzene	25		UD
10061-02-6	trans-1,3-Dichloropropene	25		UD
75-25-2	Bromoform	25		UD
108-10-1	4-Methyl-2-Pentanone	50		UD
591-78-6	2-Hexanone	9.9		JD
127-18-4	Tetrachloroethene	25		UD
79-34-5	1,1,2,2-Tetrachloroethane	25		UD
X 108-88-3	Toluene	4.3		JD
108-90-7	Chlorobenzene	25		UD
X 100-41-4	Ethylbenzene	4.5		JD
X 100-42-5	Styrene	25		UD

EFFLUENT

Contract: REICHHOLD CHEM., INC

Site:

Location:

Group:

Lab Sample ID: O19040

Lab File ID: V2535.D

Date Received: 9-13/93

Date Analyzed: 9-18/93

Dilution Factor: 5.0

Soil Aliquot Volume: (uL)

(ug/L or ug/Kg)

ug/L

Q

390

842894088

CHEMTECH

CONSULTING GROUP, INC.

Environmental Services

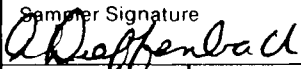
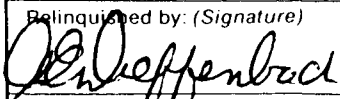
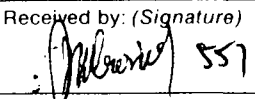
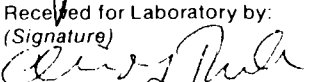
Since 1967

CHAIN OF CUSTODY RECORD

110 Route 4 • Englewood, New Jersey 07631

(201) 567-6868 • (212) 255-2100

Fax: (201) 567-1333

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinse 5. Soil/Sediment 6. Oil 7. Waste water 8. Other (Specify)		2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved		3. PROJ. NO. PROJECT NAME WASTE WATER STRIPPER		SAMPLING CO. REINHOLD CHEM											
Sampler (Name) A. DIEFFENBACH		Sampler Signature 		4. Date Shipped		Carrier											
Airbill Number		ANALYSIS Metals (Pb, Zn) Cyanide VOA BVA		ANALYTICAL REMARKS													
Sample Numbers	A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description	1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection	G Sample Condition On Receipt	H CHEMTECH Tracking Number	
1.	7	2, 3, 7	5	Effluent	✓	✓	✓	✓						9/13/93	:	A P	
2.														/ /19	:	A P	
3.														/ /19	:	A P	
4.														/ /19	:	A P	
5.														/ /19	:	A P	
6.														/ /19	:	A P	
7.														/ /19	:	A P	
8.														/ /19	:	A P	
9.														/ /19	:	A P	
10.														/ /19	:	A P	
11.														/ /19	:	A P	
12.														/ /19	:	A P	
13.														/ /19	:	A P	
14.														/ /19	:	A P	
15.														/ /19	:	A P	
Relinquished by: (Signature) 		Date / Time 9/14/93		Received by: (Signature) 		Shipment complete? Y N		Page of		REMARKS							
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) 		Date / Time 9/14/93											

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

No 200371



LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 09/16/93

(Page 1 of 1)

		SAMPLE				DELIVERY TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME	MATRIX	
18173	08/18/93		CLIENT	08/19/93	0900	WW	

CLIENT STATION ID: EFFLUENT
LAB #: 18173

CYANIDE, TOTAL
LEAD, TOTAL
ZINC, TOTAL

mg/L < 0.01
mg/L < 0.01
mg/L 0.56

LABORATORY DIRECTOR

A handwritten signature in dark ink, appearing to be "J. Dieffenbach", is written over a horizontal line. The signature is stylized with a large, sweeping initial "J" and a series of loops and flourishes.

DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC.
 Project No.: 2716 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O18173
 Sample wt/vol: 1 (g/mL) ML Lab File ID: V2391.D
 Level: (low/med) LOW Date Received: 8/19/93
 % Moisture: not dec. 100 Date Analyzed: 9/2/93
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ Soil Aliquot Volume: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
74-87-3	Chloromethane	50		U
74-83-9	Bromomethane	50		U
75-01-4	Vinyl Chloride	50		U
75-00-3	Chloroethane	50		U
75-09-2	Trichlorofluoromethane	50		U
75-09-2	Methylene Chloride	200		
67-64-1	Acetone	49		J
75-15-0	Carbon Disulfide	25		U
75-35-4	1,1-Dichloroethene	25		U
75-34-4	1,1-Dichloroethane	25		U
540-59-0	1,2-Dichloroethene (total)	25		U
67-66-3	Chloroform	1.2		J
107-06-2	1,2-Dichloroethane	25		U
78-93-3	2-Butanone	16		J
71-55-6	1,1,1-Trichloroethane	25		U
56-23-5	Carbon Tetrachloride	25		U
75-27-4	Bromodichloromethane	25		U
78-87-5	1,2-Dichloropropane	25		U
10061-01-5	cis-1,3-Dichloropropene	25		U
79-01-6	Trichloroethene	25		U
124-48-1	Dibromochloromethane	25		U
79-00-5	1,1,2-Trichloroethane	25		U
71-43-2	Benzene	25		U
10061-02-6	trans-1,3-Dichloropropene	25		U
75-25-2	Bromoform	25		U
108-10-1	4-Methyl-2-Pentanone	50		U
591-78-6	2-Hexanone	10		J
127-18-4	Tetrachloroethene	25		U
79-34-5	1,1,2,2-Tetrachloroethane	25		U
X 108-88-3	Toluene	1.5		J
108-90-7	Chlorobenzene	25		U
X 100-41-4	Ethylbenzene	5.5		J
X 100-42-5	Styrene	25		U

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD CHEMICAL, INC.

Project No.: 2716

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: 018173

Sample wt/vol: _____ (g/mL) _____ ML

Lab File ID: V2391.D

Level: (low/med) LOW

Date Received: 8/19/93

% Moisture:	not dec.	100
-------------	----------	-----

Date Analyzed: 9/2/93

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume:

Soil Aliquot Volume:

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC.
 Project No.: 2716 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O18173
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: B0021
 Level: (low/med) _____ Date Received: 8/19/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 8/21/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/23/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	30		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
95-50-1	1,2-Dichlorobenzene	10		U
100-51-6	Benzyl alcohol	4		J
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	4		J
108-60-1	bis(2-chloroisopropyl)ether	10		U
106-44-5	4-Methylphenol	1		J
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
65-85-0	Benzoic Acid	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC.
 Project No.: 2716 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O18173
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: B0021
 Level: (low/med) _____ Date Received: 8/19/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 8/21/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/23/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	5.9		J
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

CHAIN OF CUSTODY RECORD

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste <i>water</i> 8. Other (Specify)	2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved		3. PROJ. NO.		PROJECT NAME <i>WASTEWATER STRIPPER - REXHILL CHEM LINE</i>										SAMPLING CO.			
			Sampler (Name) <i>T. Johnson</i>		E ANALYSIS <i>Metals Cyanide BTA UoA</i>										ANALYTICAL REMARKS			
			Sampler Signature <i>T. Johnson</i>															
			4. Date Shipped	Carrier														
			Airbill Number															
Sample Numbers	A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description	1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection		G Sample Condition On Receipt	H CHEMTECH Tracking Number	
1.	7	2,5,7	5		*	*	*	*							8/18/93	A P		
2.															/ /19	A P		
3.															/ /19	A P		
4.															/ /19	A P		
5.															/ /19	A P		
6.															/ /19	A P		
7.															/ /19	A P		
8.															/ /19	A P		
9.															/ /19	A P		
10.															/ /19	A P		
11.															/ /19	A P		
12.															/ /19	A P		
13.															/ /19	A P		
14.															/ /19	A P		
15.															/ /19	A P		
Relinquished by: (Signature) <i>Al DiEffenbacher</i>			Date / Time 8/19/83 AM		Received by: (Signature) 8/19/93 <i>Chris Thibault</i>			Shipment complete? Y N		Page of		REMARKS						
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature) <i>Chris Thibault</i>			Date / Time 8/19/93										

Reichhold Chemicals, Inc.
46 Albert Ave.
Newark, NJ 07105

842894096

WASTE WATER ANALYSIS

				REMARKS
Sample	WASTE WATER "STRIPPER"			
Date	7-13-93			
Source	PCI, Doremus Ave Newark, NJ			
				Dilution: 1/2 ml in 5 ml tap water. F = 10
Chloroform				
Benzene				
Toluene	1,301 ppb			
Ethylbenzene	130.8 ppb			
m-p-Xylene	595.6 ppb			
o-Xylene	158.7 ppb			
Other Organics				
C O D (ppm)	61,600			Dilution: 1/2 ml in 100 ml tap water F = 200
pH	5.66			

Date of Analysis: 7-14-93

By: *[Signature]*

THIS SAMPLE WAS
SENT TO CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 08/05/93

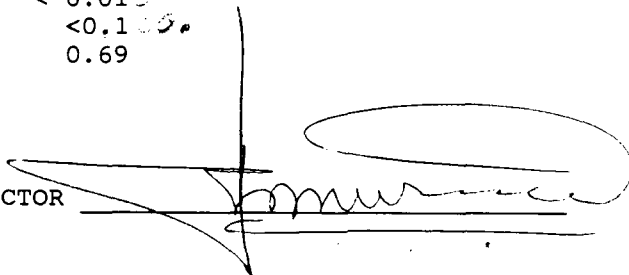
(Page 1 of 1)

LAB No.	SAMPLE DATE	TIME	SAMPLER	DELIVERY TO LAB DATE	TIME MATRIX
15965	07/14/93		CLIENT	07/14/93	1000 WW

CLIENT STATION ID: EFFLUENT
LAB #: 15965

CYANIDE, TOTAL	mg/L	< 0.010
LEAD, TOTAL	mg/L	< 0.100
ZINC, TOTAL	mg/L	0.69

LABORATORY DIRECTOR



DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

- VALUE - If the result is a value greater than or equal to the detection limit, report the value.
- U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J - Indicates an estimated value. This flag is used:
- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".
- B - Indicates the analyte was found in the blank as well as the sample; report as "12B".
- E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 2572

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O15965Sample wt/vol: 5 (g/mL) MLLab File ID: V2222.D

Level: (low/med) _____

Date Received: 7/14/93% Moisture: not dec. 100Date Analyzed: 7/15/93GC Column: DB624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	5		U
67-64-1	Acetone	47		
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	1		J
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
0061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethene	5		U
72-44-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
0061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
78-10-1	4-Methyl-2-Pentanone	10		U
71-78-6	2-Hexanone	11		
77-18-4	Tetrachloroethene	1.6		J
77-34-5	1,1,2,2-Tetrachloroethane	5		U
78-88-3	Toluene	7		
78-90-7	Chlorobenzene	5		U
70-41-4	Ethylbenzene	1.9		J
70-42-5	Styrene	5		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENTLab Name: CHEMTECHContract: REICHOLD CHEMICAL, INC.Project No.: 2572

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O15965Sample wt/vol: 1000.0 (g/mL ML)Lab File ID: S1065.DLevel: (low/med) LOWDate Received: 7/14/93% Moisture: 100 decanted: (Y/N): NDate Extracted: 7/16/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 7/19/93Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
108-95-2	Phenol	10		U
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
95-50-1	1,2-Dichlorobenzene	10		U
100-51-6	Benzyl alcohol	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	10		U
108-60-1	bis(2-chloroisopropyl)ether	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
65-85-0	Benzoic Acid	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHOLD CHEMICAL, INC.
 Project No.: 2572 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O15965
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1065.D
 Level: (low/med) LOW Date Received: 7/14/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 7/16/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	8.2		J
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

CHAIN OF CUSTODY RECORD

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste Water 8. Other (Specify)		2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved		3. PROJ. NO.		PROJECT NAME Reichold										SAMPLING CO.			
				Sampler (Name) Client		E ANALYSIS BVA Cyanide Heavy Metal VOA										ANALYTICAL REMARKS			
				Sampler Signature															
				4. Date Shipped														Carrier	
				Airbill Number															
Sample Numbers	A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description		1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection		G Sample Condition On Receipt	H CHEMTECH Tracking Number	
1.	7	2,5	5		X	X	X	X							7/14/93	A P	intact	17145	
2.															/ /19	A P			
3.															/ /19	A P			
4.															/ /19	A P			
5.															/ /19	A P			
6.															/ /19	A P			
7.															/ /19	A P			
8.															/ /19	A P			
9.															/ /19	A P			
10.															/ /19	A P			
11.															/ /19	A P			
12.															/ /19	A P			
13.															/ /19	A P			
14.															/ /19	A P			
15.															/ /19	A P			
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Shipment complete? Y N		Page _____ of _____		REMARKS sampling by Client									
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time													

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

No 100149

842894103



LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 06/29/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 14503

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.82

LABORATORY DIRECTOR

A handwritten signature in dark ink, appearing to be "Arthur Dieffenbach", is written over a horizontal line. The signature is stylized and includes a vertical line that extends upwards and downwards.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 2460

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O14503Sample wt/vol: 5 (g/mL) MLLab File ID: V1957.D

Level: (low/med) _____

Date Received: 6/15/93% Moisture: not dec. 100Date Analyzed: 6/23/93GC Column: DB624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	4		
67-64-1	Acetone	240		E
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	1		J
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	6		J
591-78-6	2-Hexanone	120		
127-18-4	Tetrachloroethene	4.2		J
79-34-5	1,1,2,2-Tetrachloroethane	2.8		J
108-88-3	Toluene	2.9		J
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	1.2		J
100-42-5	Styrene	5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 2460

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O14503

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1957.D

Level: (low/med)

Date Received: 6/15/93

% Moisture:	not dec.	100
-------------	----------	-----

Date Analyzed: 6/23/93

GC Column: DB624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg)

ug/L

Q

CAS No.

Compound

[illegible]

1B
SEMIVOLATILE ORGANICS ANALYSIS ATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC.

Project No.: 2460 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O14503

Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1009.D

Level: (low/med) _____ Date Received: 6/16/93

% Moisture: 100 decanted: (Y/N): N Date Extracted: 6/18/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/25/93

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
108-95-2	Phenol		15	
111-44-4	bis(2-Chloroethyl)ether		10	U
95-57-8	2-Chlorophenol		10	U
95-50-1	1,2-Dichlorobenzene		10	U
100-51-6	Benzyl alcohol		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	bis(2-chloroisopropyl)ether		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitroso-di-n-propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	bis(2-Chloroethoxy)methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
65-85-0	Benzoic Acid		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		50	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		50	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD CHEMICAL, INC.
 Project No.: 2460 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O14503
 Sample wt/vol: 1000.0 (g/mL ML) Lab File ID: S1009.D
 Level: (low/med) _____ Date Received: 6/16/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 6/18/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/25/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50	U	U
83-32-9	Acenaphthene	10	U	U
51-28-5	2,4-Dinitrophenol	50	U	U
100-02-7	4-Nitrophenol	50	U	U
132-64-9	Dibenzofuran	10	U	U
121-14-2	2,4-Dinitrotoluene	10	U	U
84-66-2	Diethylphthalate	10	U	U
7005-72-3	4-Chlorophenyl-phenylether	10	U	U
86-73-7	Fluorene	10	U	U
100-01-6	4-Nitroaniline	50	U	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U	U
86-30-6	N-Nitrosodiphenylamine	10	U	U
101-55-3	4-Bromophenyl-phenylether	10	U	U
118-74-1	Hexachlorobenzene	10	U	U
87-86-5	Pentachlorophenol	11	J	J
85-01-8	Phenanthrene	10	U	U
120-12-7	Anthracene	10	U	U
84-74-2	Di-n-butylphthalate	10	U	U
206-44-0	Fluoranthene	10	U	U
129-00-0	Pyrene	10	U	U
85-68-7	Butylbenzylphthalate	10	U	U
91-94-1	3,3'-Dichlorobenzidine	10	U	U
56-55-3	Benzo[a]anthracene	10	U	U
218-01-9	Chrysene	10	U	U
117-81-7	bis(2-Ethylhexyl)phthalate	7.1	J	J
117-84-0	Di-n-octylphthalate	10	U	U
205-99-2	Benzo[b]fluoranthene	10	U	U
207-08-9	Benzo[k]fluoranthene	10	U	U
50-32-8	Benzo[a]pyrene	10	U	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U	U
53-70-3	Dibenz[a,h]anthracene	10	U	U
191-24-2	Benzo[g,h,i]perylene	10	U	U

CHAIN OF CUSTODY RECORD

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify)		2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved		3. PROJ. NO. PROJECT NAME Reichold WASTE WATER STRIPPER		SAMPLING CO. REICHOLD CHEM		ANALYTICAL REMARKS ANALYSIS Metals (Pb, Zn) BUA VOA Cyanide													
Sampler (Name) A. DIEFFENBACH		Sampler Signature <i>A. Dieffenbach</i>		4. Date Shipped 6/15/93		Carrier		Airbill Number													
Sample Numbers		A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description		1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection		G Sample Condition On Receipt	H CHEMTECH Tracking Number		
1.		7	—		STRIPPER		X	X	X	X							6/15/93		Comp	good	
2.																	/ /19		:		
3.																	/ /19		:		
4.																	/ /19		:		
5.																	/ /19		:		
6.																	/ /19		:		
7.																	/ /19		:		
8.																	/ /19		:		
9.																	/ /19		:		
10.																	/ /19		:		
11.																	/ /19		:		
12.																	/ /19		:		
13.																	/ /19		:		
14.																	/ /19		:		
15.																	/ /19		:		
Relinquished by: (Signature) <i>A. Dieffenbach</i>		Date / Time 6/15/93		Received by: (Signature) <i>Jeffrey Muller</i>		Shipment complete? Y N		Page of		REMARKS											
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time 6/15/93		1400													



DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

- VALUE - If the result is a value greater than or equal to the detection limit, report the value.
- U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J - Indicates an estimated value. This flag is used:
- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".
- B - Indicates the analyte was found in the blank as well as the sample; report as "12B".
- E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
 300-400 DOREMUS AVENUE
 NEWARK, NJ 07105-
 Attn: ARTHUR DIEFFENBACH

DATE: 06/07/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
 LAB #: 13011

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.92

LABORATORY DIRECTOR



$$\text{Avg Flow} \quad 5.575 \overset{10^3}{\text{GPD}} \times 748 \overset{10^1}{\text{}} \times 4.536 \overset{10^2}{\text{}} = 18.92 \times 10^6$$

$$\text{MAX Flow} \quad 5873 \quad = 19.93 \times 10^6$$

$$\frac{\text{Mg}}{\text{L}} = \frac{9}{10^6} =$$

DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

- VALUE - If the result is a value greater than or equal to the detection limit, report the value.
- U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J - Indicates an estimated value. This flag is used:
- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".
- B - Indicates the analyte was found in the blank as well as the sample; report as "12B".
- E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICH. CHEM. INC.Project No.: 2354

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O13013Sample wt/vol: 5 (g/mL) MLLab File ID: V1572.DLevel: (low/med) LOWDate Received: 5/14/93% Moisture: not dec. 100Date Analyzed: 5/20/93GC Column: DB624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
+ 74-87-3	Methyl Chloride	10		U
74-83-9	Bromomethane	10		U
+ 75-01-4	Vinyl Chloride	10		U
+ 75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
+ 75-09-2	Methylene Chloride	16		
67-64-1	Acetone	55		
75-15-0	Carbon Disulfide	5		U
+ 75-35-4	1,1-Dichloroethene	5		U
+ 75-34-4	1,1-Dichloroethane	5		U
→ 540-59-0	1,2-Dichloroethene (total)	5		U
+ 67-66-3	Chloroform	5		U
+ 107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	14		
+ 71-55-6	1,1,1-Trichloroethane	5		U
+ 56-23-5	Carbon Tetrachloride	5		U
+ 75-27-4	Bromodichloromethane	5		U
+ 78-87-5	1,2-Dichloropropane	5		U
→ 10061-01-5	cis-1,3-Dichloropropene	5		U
+ 79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
+ 79-00-5	1,1,2-Trichloroethane	5		U
+ 71-43-2	Benzene	5		U
+ 10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
+ 127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
+ 108-88-3	Toluene	11		
+ 108-90-7	Chlorobenzene	5		U
+ 100-41-4	Ethylbenzene	10		
100-42-5	Styrene	5		U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDLab Code: 2354

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATERLab Sample ID: 13011Sample wt/vol: 1000 (g/mL ML)Lab File ID: S0898.DLevel: (low/med) LOWDate Received: 5/14/93% Moisture: 100decanted: (Y/N): NDate Extracted: 5/15/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 5/26/93Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) NpH: 7.6

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	10		U
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
+ 95-50-1	1,2-Dichlorobenzene	10		U
+ 541-73-1	1,3-Dichlorobenzene	10		U
+ 106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	o-Cresol	6.6		J
106-44-5	p-Cresol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
+ 67-72-1	Hexachloroethane	10		U
+ 98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	7.5		J
+ 88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
65-85-0	Benzoic Acid	10		U
+ 120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
+ 87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSPF Process Water Shipments From Reichhold, Albert Ave.

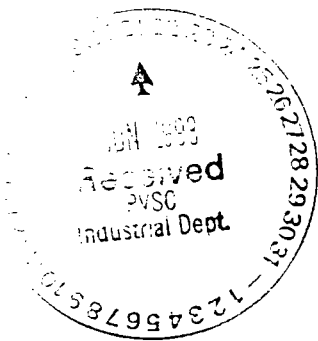
MAY 1 1993 to MAY 31, 1993

	<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1.	5/01/93	48,260	5814
2.	5/05/93	42,300	5096
3.	5/07/93	47,760	5754
4.	5/13/93	48,160	5802
5.	5/17/93	47,180	5684
6.	5/19/93	47,840	5764
7.	5/22/93	45,260	5453
8.	5/25/93	46,940	5655
9.	5/28/93	48,900	5892
Total Gallons Received From Albert Ave.:			50914 GAL

5/10

5/30

INCORRECT



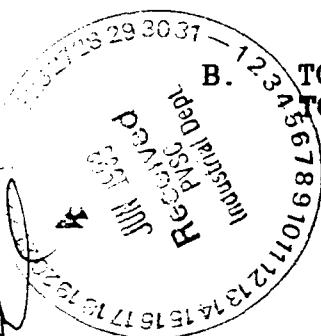
REICHHOLD CHEMICALS, INC.
46 ALBERT AVENUE
NEWARK , NEW JERSEY 07105

FOR MONTH OF MAY - 1993.
MAY 01, 93 TO MAY 31, 93.

DATE ----	LBS OF WATER -----	GALLONS OF WATER -----
01. 05/01/93	47,700 ✓	5,719 GALS.
02. 05/05/93	40,760 ✓	4,887 GALS.
03. 05/07/93	47,760 ✓	5,727 GALS.
04. 05/10/93	48,500	5,815 GALS.
05. 05/13/93	48,340 ✓	5,796 GALS.
06. 05/17/93	42,860 ? ✓	5,139 GALS.
07. 05/19/93	47,840 ✓	5,736 GALS.
08. 05/22/93	45,260 ✓	5,427 ✓ GALS.
09. 05/25/93	46,940 ✓	5,628 ✓ GALS.
10. 05/28/93	48,980 ✓	5,873 GALS.
11. 05/30/93	47,800 <i>June Report</i>	5,731 GALS.

A. TOTAL TANKWAGONS SHIPPED TO ----- *24 10*
DOREMUS AVE, NEWARK PLANT
FOR TREATMENT & DISPOSAL.

B. TOTAL WATER (GALLONS) SHIPPED ----- *55747*
TO DOREMUS AVENUE *81,478 GALS.*



IC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD

Lab Code: CHEM Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 13011

Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0898.D

Level: (low/med) LOW Date Received: 5/14/93

% Moisture: 100 decanted: (Y/N): N Date Extracted: 5/15/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 5/26/93

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.6

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
99-09-2	3-Nitroaniline	50	U	U
83-32-9	Acenaphthene	10	U	U
51-28-5	2,4-Dinitrophenol	50	U	U
+ 100-02-7	4-Nitrophenol	50	U	U
132-64-9	Dibenzofuran	10	U	U
121-14-2	2,4-Dinitrotoluene	10	U	U
84-66-2	Diethylphthalate	10	U	U
7005-72-3	4-Chlorophenyl-phenylether	10	U	U
86-73-7	Fluorene	10	U	U
100-01-6	4-Nitroaniline	50	U	U
+ 534-52-1	4,6-Dinitro o-Cresol	50	U	U
86-30-6	N-Nitrosodiphenylamine	10	U	U
101-55-3	4-Bromophenyl-phenylether	10	U	U
+ 118-74-1	Hexachlorobenzene	10	U	U
87-86-5	Pentachlorophenol	50	U	U
85-01-8	Phenanthrene	10	U	U
120-12-7	Anthracene	10	U	U
84-74-2	Di-n-butylphthalate	10	U	U
206-44-0	Fluoranthene	10	U	U
129-00-0	Pyrene	10	U	U
85-68-7	Butylbenzylphthalate	1.1	J	J
91-94-1	3,3'-Dichlorobenzidine	10	U	U
56-55-3	Benzo[a]anthracene	10	U	U
218-01-9	Chrysene	10	U	U
117-81-7	bis(2-Ethylhexyl)phthalate	20		
117-84-0	Di-n-octylphthalate	10	U	U
205-99-2	Benzo[b]fluoranthene	10	U	U
207-08-9	Benzo[k]fluoranthene	10	U	U
50-32-8	Benzo[a]pyrene	10	U	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U	U
53-70-3	Dibenz[a,h]anthracene	10	U	U
191-24-2	Benzo[g,h,i]perylene	10	U	U

CHAIN OF CUSTODY RECORD

1. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify)	2. Preservative (Enter in Column B) See other side 1. HCl 2. HNO ₃ 3. NaHSO ₄ 4. H ₂ SO ₄ 5. NaOH 6. Other (Specify) 7. Ice only N. Not preserved		3. PROJ. NO.		PROJECT NAME Kendrick Chemical										SAMPLING CO.			
			Sampler (Name)		E ANALYSIS BULK CAN METALS LCV										ANALYTICAL REMARKS			
			Sampler Signature															
			4. Date Shipped	Carrier														
Airbill Number																		
Sample Numbers	A Matrix Enter from Box 1	B Preservative Used from Box 2	C No. of Containers	D Station Location or Sample Description	1	2	3	4	5	6	7	8	9	F Date and Time of Sample Collection		G Sample Condition On Receipt	H CHEMTECH Tracking Number	
1.	2	2,5	5		X	X	X	2							5/14/19/13	2:30	A P	
2.															/ /19	:	A P	
3.															/ /19	:	A P	
4.															/ /19	:	A P	
5.															/ /19	:	A P	
6.															/ /19	:	A P	
7.															/ /19	:	A P	
8.															/ /19	:	A P	
9.															/ /19	:	A P	
10.															/ /19	:	A P	
11.															/ /19	:	A P	
12.															/ /19	:	A P	
13.															/ /19	:	A P	
14.															/ /19	:	A P	
15.															/ /19	:	A P	
Relinquished by: (Signature) J. Dieffenbach		Date / Time 5/17/13		Received by: (Signature)		Shipment complete? Y N		Page of		REMARKS								
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) Jeffrey Williams		Date / Time 5/17/13												

RONALD W. GIACONIA
CHAIRMAN

JAMES KRONE
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
DOMINIC W. CUCCINELLO
RAYMOND LUCHKO
FRANK ORECHIO
DONALD TUCKER
COMMISSIONERS



**Passaic Valley
Sewerage Commissioners**

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

LOUIS LANZILLO
CLERK

May 24, 1993

Mr. Paul Brustofski
Reichhold Chemicals, Inc.
P.O. Box 13582
Research Triangle Park, North Carolina 27709-3582

**RE: REQUEST TO DISCHARGE
WASTESTREAM TO NEWARK FACILITY**

Dear Mr. Brustofski:

This to advise you that your request to transport wastewater from your Baltimore Facility to the Doremus Avenue Facility for treatment and discharge to the sewer system is denied. Due to the fact that this wastewater was not generated in the PVSC district we have no authority to accept it.

If you need any additional assistant in this matter please contact Frank P. D'Ascensio, Manager of Industrial & Pollution Control at (201) 817-5710.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

A handwritten signature in dark ink, appearing to read "Carmine T. Perrapato".

Carmine T. Perrapato
Executive Director

CTP/mc

cc: Robert Davenport, Deputy Executive Director
Frank P. D'Ascensio
Mario Graglia
Tom Mack
A. Dieffenbach, Reichhold Chemical, Newark

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 05/15/93

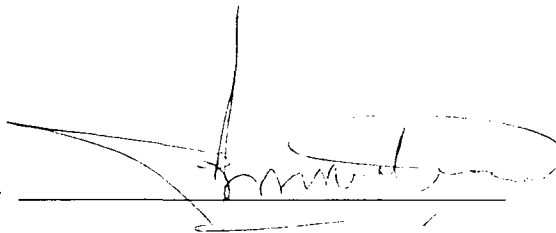
(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 11225

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	0.148
ZINC, TOTAL	mg/L	0.695

SAMPLE COLLECTED ON 04/15/93

LABORATORY DIRECTOR



DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

- VALUE - If the result is a value greater than or equal to the detection limit, report the value.
- U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J - Indicates an estimated value. This flag is used:
- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".
- B - Indicates the analyte was found in the blank as well as the sample; report as "12B".
- E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SAMPLE 1

Lab Name: CHEMTECH Contract: R. CHEM., INC.
 Project No.: 2264 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: 11225
 Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0840
 Level: (low/med) _____ Date Received: 4/15/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 4/15/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 4/29/93
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	10		U
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	10		U
108-60-1	2,2'-oxybis(1-Chloropropane)	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SAMPLE 1

Lab Name: CHEMTECH Contract: R. CHEM., INC.

Project No.: 2264 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 11225

Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0840

Level: (low/med) _____ Date Received: 4/15/93

% Moisture: 100 decanted: (Y/N): N Date Extracted: 4/15/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 4/29/93

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
51-28-5	2,4-Dinitrophenol	50		U
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD
 Project No.: 2264 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O11225
 Sample wt/vol: 5 (g/mL) ML Lab File ID: V1444.D
 Level: (low/med) _____ Date Received: 4/15/93
 % Moisture: not dec. 100 Date Analyzed: 4/23/93
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Trichlorofluoromethane	10	U
75-09-2	Methylene Chloride	13	
67-64-1	Acetone	35	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	3.1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 2264

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: 011225

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1444.D

Level: (low/med)

Date Received: 4/15/93

% Moisture:	not dec.	100
-------------	----------	-----

Date Analyzed: 4/23/93

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

CHEMTECH
CONSULTING GROUP, INC.

110 Route 4 • Englewood, New Jersey 07631
(201) 567-6060 • (212) 255-2100 • Fax: (201) 567-1333

[illegible]

CHEMTECH

CONSULTING GROUP, INC.

110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

INVOICE

REICCHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105INVOICE NO.: 62052
DATE 04/27/93

PROJECT NUMBER 2164

PAGE 1

SAMPLE NO. 10159 EFFLUENT

\$ 700.00

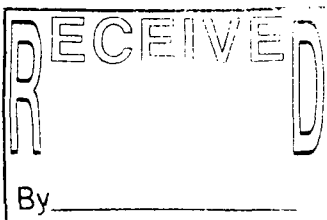
PAGE TOTAL

\$ 700.00

GRAND TOTAL

\$ 700.00

OK to Pay
5/3/93
JEDiffendal



Passaic Valley Sewerage Comm.
600 Wilson Ave.
Newark, NJ 07105
Attn. Industrial Dept.

Dear Sir,

Attached you will find the completed MR-1 report for May 1993, for our facility at 400 Doremus Ave, Newark, NJ. If you require any additional information regarding this report please contact me at (201)-589-3716 during business hours.

Sincerely yours,

Arthur E. Dieffenbach
Plant Engineer

RA LETTERS
PH

Passaic Valley Sewerage Comm.
600 Wilson Ave.
Newark, NJ 07105
Attn. Industrial Dept.

Dear Sir,

Attached you will find the completed MR-1 report for May 1993, for our facility at 400 Doremus Ave, Newark, NJ. If you require any additional information regarding this report please contact me at (201)-589-3716 during business hours.

Sincerely yours,

Arthur E. Dieffenbach
Plant Engineer

CHEMTECH CONSULTING GROUP, INC.

110 ROUTE 4
ENGLEWOOD, NEW JERSEY 07631

PHONE NUMBER:(201) 567-6868

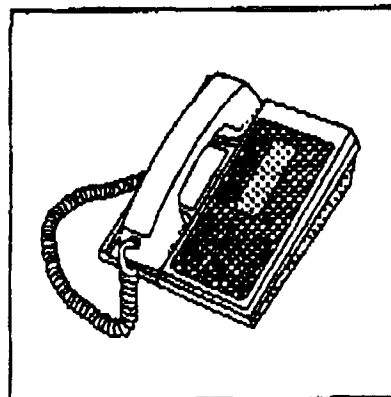
FAX NUMBER:(201) 567-1333

F A X
COVER SHEETCompany: Clecochemical ChemicalDate: _____
Time: _____Attention: Art PfefferbachFax Number: 491-0074Number of Pages: _____
(Including this page)

Subject: _____

From: Shirley McKel

If you do not receive all pages, please telephone the sender immediately.



LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 04/17/93

(Page 1 of 1)

PRELIMINARY RESULTS

CLIENT STATION ID: EFFLUENT
LAB #: 10158

ZINC, TOTAL

mg/L

.516

LABORATORY DIRECTOR 

CHEMTECH

CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 04/16/93

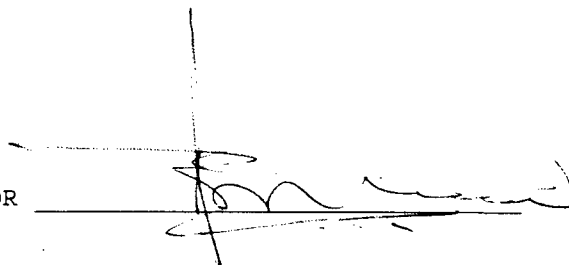
(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 10158

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1

PROJECT NO. 2164

LABORATORY DIRECTOR



1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD
 Project No.: 2164 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O10158
 Sample wt/vol: 5 (g/mL) ML Lab File ID: V1328.D
 Level: (low/med) _____ Date Received: 3/24/93
 % Moisture: not dec. 100 Date Analyzed: 3/26/93
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Trichlorofluoromethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	12	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	1.2	J
100-42-5	Styrene	5	U

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 2164

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O10158

Sample wt/vol: 5 (g/mL) ML

Lah File ID: V1328.D

Level: (low/med)

Date Received: 3/24/93

% Moisture:	not dec.	100
-------------	----------	-----

Date Analyzed: 3/26/93

GC Column: DB-624

ID: 0.53 (min)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg)

ug/L

Q

[illegible]

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHOLD
 Project No.: 2085 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O9507
 Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0663.D
 Level: (low/med) _____ Date Received: 3/1/93
 % Moisture: _____ decanted: (Y/N): N Date Extracted: 3/4/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3/11/93
 Injection Volume: 1.0 (uL) Dilution Factor: 10.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	165		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	o-Cresol	10		U
106-44-5	p-Cresol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U

1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHOLD
 Project No.: 2085 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O9507
 Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0663.D
 Level: (low/med) _____ Date Received: 3/1/93
 % Moisture: _____ decanted: (Y/N): N Date Extracted: 3/4/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 3/11/93
 Injection Volume: 1.0 (uL) Dilution Factor: 10.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro o-Cresol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	25		
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

CHAIN OF CUSTODY RECORD

[illegible]

DATA REPORTING QUALIFIERS ORGANIC

For reporting results the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compounds (library search hits) where a 1:1 response is assumed.
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analytes concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factors.

CHEMTECH CONSULTING GROUP, INC.

110 ROUTE 4
ENGLEWOOD, NEW JERSEY 07631

PHONE NUMBER:(201) 567-6868

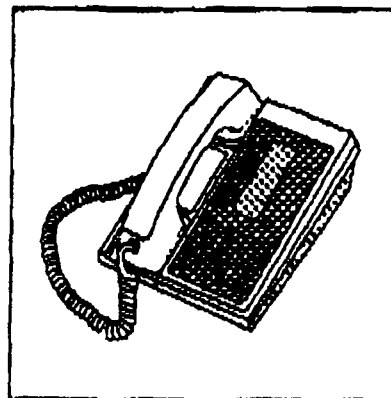
FAX NUMBER:(201) 567-1333

F A X
COVER SHEETCompany: Archold ChemicalDate: 4/16/93
Time: _____Attention: Art RuffenachFax Number: 817-9173Number of Pages: 8
(Including this page)

Subject: _____

From: Dwya Mehra

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LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

DATE: 04/16/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 10158

CYANIDE, TOTAL

mg/L

<0.01⁰

LEAD, TOTAL

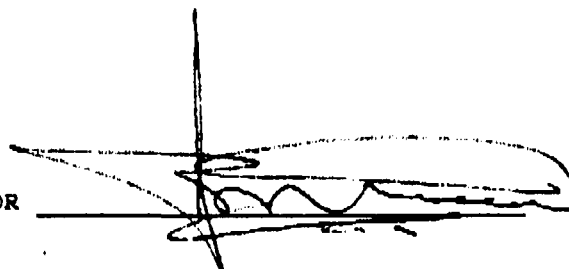
mg/L

<0.1

~~ZINC~~

PROJECT NO. 2164

LABORATORY DIRECTOR



DATA REPORTING QUALIFIERS ORGANIC

For reporting results the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compounds (library search hits, where a 1:1 response is assumed.
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analytes concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factors.

842894143

 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHOLDProject No.: 2164

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O10158Sample wt/vol: 5 (g/mL) MLLab File ID: V1328.D

Level: (low/med) _____

Date Received: 3/24/93% Moisture: not dec. 100Date Analyzed: 3/26/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
74-87-3	Chloromethane <i>METHYL CL</i>	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	5		U
67-64-1	Acetone	12		
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
108-88-3	Toluene	5		U
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	1.2		J
100-42-5	Styrene	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 2085

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O9507Sample wt/vol: 1000 (g/mL MLLab File ID: S0663.D

Level: (low/med) _____

Date Received: 3/1/93

% Moisture: _____

decanted: (Y/N): NDate Extracted: 3/4/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 3/11/93Injection Volume: 1.0 (uL)Dilution Factor: 10.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	165		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	o-Cresol	10		U
106-44-5	p-Cresol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 2085

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O9507Sample wt/vol: 1000 (g/mL MLLab File ID: S0663.D

Level: (low/med) _____

Date Received: 3/1/93

% Moisture: _____

decanted: (Y/N): NDate Extracted: 3/4/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 3/11/93Injection Volume: 1.0 (uL)Dilution Factor: 10.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro o-Cresol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	25		
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

CHAIN OF CUSTODY RECORD

[illegible]

CHAIN OF CUSTODY RECORD

842894148

PROJ. NO.		PROJECT NAME REICHMOLD CHEMICALS WASTEWATER STRIPPER					NO.	REMARKS									
AMPLERS (Signature) <i>Al Dieffenbacher</i>							OF										
							CON- TAINERS										
TA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION		5										
	4/15/93	10 ⁰⁰		X													
Relinquished by: (Signature) <i>Al Dieffenbacher</i>			Date / Time 4/15/93 1 ¹⁰ PM		Received by: (Signature)			Relinquished by: (Signature)			Date / Time		Received by: (Signature)				
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)			Date / Time		Received by: (Signature)				
Relinquished by: (Signature)			Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks							

842894149

CHEMTECH

CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

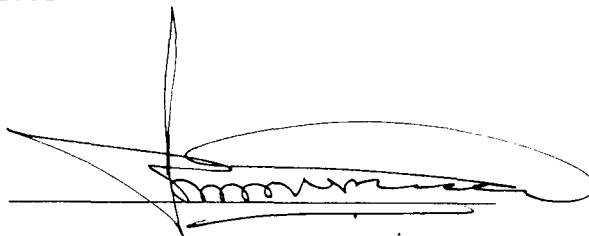
PROJECT NAME: 1944
DATE: 03/02/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 8498

CYANIDE, TOTAL	mg/L	<0.010.
LEAD, TOTAL	mg/L	<0.100.
ZINC, TOTAL	mg/L	1.62

LABORATORY DIRECTOR



DATA REPORTING QUALIFIERS ORGANIC

For reporting results the following "Results Qualifiers" are used:

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- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analytes concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factors.

842894151

 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 1944

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8498Sample wt/vol: 5 (g/mL) MLLab File ID: V1132.D

Level: (low/med) _____

Date Received: 1/27/93% Moisture: not dec. 100Date Analyzed: 2/2/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
✓ 74-87-3	Methyl Chloride	10		U
74-83-9	Bromomethane	10		U
✓ 75-01-4	Vinyl Chloride	10		U
✓ 75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
✓ 75-09-2	Methylene Chloride	5		U
67-64-1	Acetone	35		
75-15-0	Carbon Disulfide	5		U
✓ 75-35-4	1,1-Dichloroethene	5		U
✓ 75-34-4	1,1-Dichloroethane	5		U
✓ 540-59-0	1,2-Dichloroethene (total)	5		U
✓ 67-66-3	Chloroform	5		U
✓ 107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
✓ 71-55-6	1,1,1-Trichloroethane	5		U
✓ 56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
✓ 78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
✓ 79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
✓ 79-00-5	1,1,2-Trichloroethane	5		U
✓ 71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
✓ 127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
✓ 108-88-3	Toluene	5		U
✓ 108-90-7	Chlorobenzene	5		U
✓ 100-41-4	Ethylbenzene	5		U
100-42-5	Styrene	5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1A

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1944

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O8498

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1132.D

Level: (low/med)

Date Received: 1/27/93

% Moisture: not dec. 100

Date Analyzed: 2/2/93

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

842894153

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD
Project No. 1944 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O8498
Sample wt/vol: 5 (g/mL) ML Lab File ID: V1132.D
Level: (low/med) _____ Date Received: 1/27/93
% Moisture: not dec. 100 Date Analyzed: 2/2/93
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
Number TICs found: 9 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	2.72	20	J
2. 78-84-2	Propanal, 2-methyl-	6.58	17	J
3. 78-85-3	2-Propenal, 2-methyl-	7.10	80	J
4.	Unknown	15.12	50	J
5.	Unknown Hydrocarbon	25.94	15	J
6. 4291-80-9	Cyclohexane, 1-methyl-3-prop	30.24	12	J
7. 871-83-0	Nonane, 2-methyl-	30.68	88	J
8.	Unknown Hydrocarbon	31.72	23	J
9.	Unknown	32.50	16	J
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1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENTLab Name: CHEMTECHContract: REICHHOLDProject No.: 1944

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8498Sample wt/vol: 1000 (g/mL ML)Lab File ID: S0442.D

Level: (low/med) _____

Date Received: 1/27/93% Moisture: 100decanted: (Y/N): NDate Extracted: 1/29/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 2/9/93Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	<u>ug/L</u>	Q
108-95-2	Phenol	7200		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
✓	1,2-Dichlorobenzene	10		U
✓	541-73-1 1,3-Dichlorobenzene	10		U
✓	106-46-7 1,4-Dichlorobenzene	10		U
✓	95-48-7 o-Cresol	10		U
✓	106-44-5 p-Cresol	10		U
✓	621-64-7 N-Nitroso-di-n-propylamine	10		U
✓	67-72-1 Hexachloroethane	10		U
✓	98-95-3 Nitrobenzene	10		U
✓	78-59-1 Isophorone	10		U
✓	88-75-5 2-Nitrophenol	10		U
✓	105-67-9 2,4-Dimethylphenol	10		U
✓	111-91-1 bis(2-Chloroethoxy)methane	10		U
✓	120-83-2 2,4-Dichlorophenol	10		U
✓	120-82-1 1,2,4-Trichlorobenzene	10		U
✓	91-20-3 Naphthalene	10		U
✓	106-47-8 4-Chloroaniline	10		U
✓	87-68-3 Hexachlorobutadiene	10		U
✓	59-50-7 4-Chloro-3-methylphenol	10		U
✓	91-57-6 2-Methylnaphthalene	10		U
✓	77-47-4 Hexachlorocyclopentadiene	10		U
✓	88-06-2 2,4,6-Trichlorophenol	10		U
✓	95-95-4 2,4,5-Trichlorophenol	50		U
✓	91-58-7 2-Chloronaphthalene	10		U
✓	88-74-4 2-Nitroaniline	50		U
✓	131-11-3 Dimethylphthalate	10		U
✓	208-96-8 Acenaphthylene	10		U
✓	606-20-2 2,6-Dinitrotoluene	10		U
✓	99-09-2 3-Nitroaniline	50		U
✓	83-32-9 Acenaphthene	10		U
✓	51-28-5 2,4-Dinitrophenol	50		U

842894155

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1944

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O8498

Sample wt/vol: 1000 (g/mL ML)

Lab File ID: S0442.D

Level: (low/med)

Date Received: 1/27/93

% Moisture: 100

decanted: (Y/N): N

Date Extracted: 1/29/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 2/9/93

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N)

N

pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro o-Cresol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

CHAIN OF CUSTODY RECORD

[illegible]

842894156

842894157

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

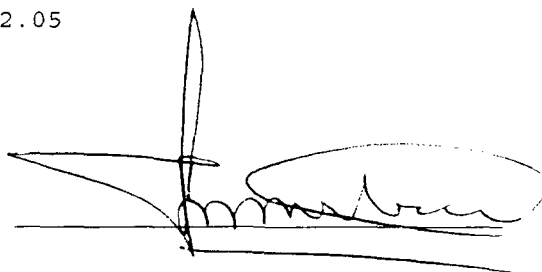
PROJECT NAME: 1916
DATE: 02/14/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 8336

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	2.05

LABORATORY DIRECTOR



VOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: O8336

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1133.D

Level: (low/med)

Date Received: 1/21/93

% Moisture: not dec. 100

Date Analyzed: 2/2/93

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Methyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	5		U
67-64-1	Acetone	130		
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
108-88-3	Toluene	14		
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	5		U
100-42-5	Styrene	5		U

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1916

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O8336

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1133.D

Level: (low/med)

Date Received: 1/21/93

% Moisture:	not dec.	100
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Date Analyzed: 2/2/93

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

842894160

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD
Project No. 1916 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O8336
Sample wt/vol: 5 (g/mL) ML Lab File ID: V1133.D
Level: (low/med) _____ Date Received: 1/21/93
% Moisture: not dec. 100 Date Analyzed: 2/2/93
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
Number TICs found: 8 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	4.03	580	J
2. 67-63-0	2-Propanol	4.97	200	J
3. 1708-29-8	Furan, 2,5-dihydro-	7.10	92	J
4. 107-18-6	2-Propen-1-ol	7.61	160	J
5. 646-06-0	1,3-Dioxolane	9.46	72	J
6. 78-83-1	1-Propanol, 2-methyl-	12.78	130	J
7.	Unknown	15.09	50	J
8.	Unknown	22.84	33	J
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842894161

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1916

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O8336

Sample wt/vol: 1000 (g/mL ML

Lab File ID: S0399.D

Level: (low/med)

Date Received: 1/21/93

% Moisture: 100

decanted: (Y/N): N

Date Extracted: 1/21/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 1/21/93

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N

pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	6000		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	o-Cresol	10		U
106-44-5	p-Cresol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD

Project No.: 1916 Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: O8336

Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0399.D

Level: (low/med) Date Received: 1/21/93

% Moisture: 100 decanted: (Y/N): N Date Extracted: 1/21/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/21/93

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	50	U	U
132-64-9	Dibenzofuran	10	U	U
121-14-2	2,4-Dinitrotoluene	10	U	U
84-66-2	Diethylphthalate	10	U	U
7005-72-3	4-Chlorophenyl-phenylether	10	U	U
86-73-7	Fluorene	10	U	U
100-01-6	4-Nitroaniline	50	U	U
534-52-1	4,6-Dinitro o-Cresol	50	U	U
86-30-6	N-Nitrosodiphenylamine	10	U	U
101-55-3	4-Bromophenyl-phenylether	10	U	U
118-74-1	Hexachlorobenzene	10	U	U
87-86-5	Pentachlorophenol	50	U	U
85-01-8	Phenanthrene	10	U	U
120-12-7	Anthracene	10	U	U
84-74-2	Di-n-butylphthalate	10	U	U
206-44-0	Fluoranthene	10	U	U
129-00-0	Pyrene	10	U	U
85-68-7	Butylbenzylphthalate	10	U	U
91-94-1	3,3'-Dichlorobenzidine	10	U	U
56-55-3	Benzo[a]anthracene	10	U	U
218-01-9	Chrysene	10	U	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U	U
117-84-0	Di-n-octylphthalate	10	U	U
205-99-2	Benzo[b]fluoranthene	10	U	U
207-08-9	Benzo[k]fluoranthene	10	U	U
50-32-8	Benzo[a]pyrene	10	U	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U	U
53-70-3	Dibenz[a,h]anthracene	10	U	U
191-24-2	Benzo[g,h,i]perylene	10	U	U

842894163

IF
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD

Project No.: 1916 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O8336

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S0399.D

Level: (low/med) _____ Date Received: 1/21/93

% Moisture: 100 decanted: (Y/N) N Date Extracted: 1/21/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/21/93

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 144-19-4	1,3-Pentanediol, 2,2,4-trime	14.69	1700	J
2. 65-85-0	Benzoic acid	15.65	570	J
3.	Unknown	17.42	100	J
4. 6738-04-1	1,1'-Biphenyl, 2-phenoxy-	26.61	1100	J
5.				
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CHAIN OF CUSTODY RECORD

[illegible]

842894164

842894165

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: O8336

Sample wt/vol: 1000 (g/mL ML

Lab File ID: S0399.D

Level: (low/med) _____

Date Received: 1/21/93

% Moisture: 100

decanted: (Y/N): N

Date Extracted: 1/21/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 1/21/93

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro o-Cresol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD
 Project No.: 1916 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O8336
 Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0399.D
 Level: (low/med) _____ Date Received: 1/21/93
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 1/21/93
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/21/93
 Injection Volume: 1.0 (uL) Dilution Factor: 20.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	6000		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	o-Cresol	10		U
106-44-5	p-Cresol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1916

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O8336

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1133.D

Level: (low/med)

Date Received: 1/21/93

% Moisture: not dec. 100

Date Analyzed: 2/2/93

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

842894168

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: 08336Sample wt/vol: 5 (g/mL) MLLab File ID: V1133.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: not dec. 100Date Analyzed: 2/2/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Methyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Trichlorofluoromethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	130	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	14	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

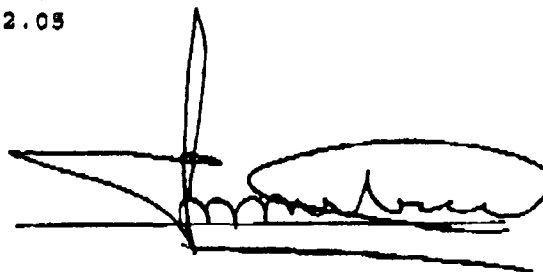
PROJECT NAME: 1916
DATE: 02/14/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 8336

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	2.09

LABORATORY DIRECTOR



NO.
OF
CON-
TAINERS

842894170

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

842894171

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No. 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8336Sample wt/vol: 5 (g/mL) MLLab File ID: V1133.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: not dec. 100Date Analyzed: 2/2/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 8(ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	4.03	580	J
2. 67-63-0	2-Propanol	4.97	200	J
3. 1708-29-8	Furan, 2,5-dihydro-	7.10	92	J
4. 107-18-6	2-Propen-1-ol	7.61	160	J
5. 646-06-0	1,3-Dioxolane	9.46	72	J
6. 78-83-1	1-Propanol, 2-methyl-	12.78	130	J
7.	Unknown	15.09	50	J
8.	Unknown	22.84	33	J
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842894172

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8336Sample wt/vol: 1000 (g/mL) MLLab File ID: S0399.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: 100 decanted: (Y/N) NDate Extracted: 1/21/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 1/21/93Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 144-19-4	1,3-Pentanediol, 2,2,4-trime	14.69	1700	J
2. 65-85-0	Benzoic acid	15.65	570	J
3.	Unknown	17.42	100	J
4. 6738-04-1	1,1'-Biphenyl, 2-phenoxy-	26.61	1100	J
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842894173

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: ARTHUR DIEFFENBACH

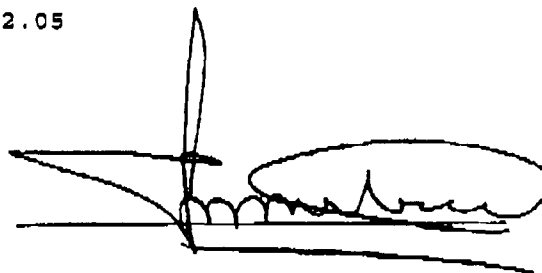
PROJECT NAME: 1916
DATE: 02/14/93

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 8336

CYANIDE, TOTAL	mg/L	<0.01
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	2.05

LABORATORY DIRECTOR



PROJ. NO.

PROJECT NAME

PROJECT NAME
WASTE WATER SAMPLE from Shyamnagar

SAMPLERS: (Signature)

(Signature) *J. E. Hoffend*

NO.
OF
CON-
TAINERS

STA. NO.

DATE _____

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REMARKS

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Date / Time

Received by: *[Signature]*

Relinquished by: (Signature)

Date / Time

Received by: (Signature)

Relinquished by: (Signature)

Date / Time

Received by: (Signature)

Relinquished by: (Signature)

Date / Time

Received by: (Signature)

Relinquished by: (Signature)

Date / Time

Received for Laboratory by:
(Signature)

Date / Time

Remarks

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

842894174

842894175

1F
SEMIVOLATILE ORGANICS ANALYS. DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD
Project No.: 1916 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O8336
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S0399.D
Level: (low/med) _____ Date Received: 1/21/93
% Moisture: 100 decanted: (Y/N) N Date Extracted: 1/21/93
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/21/93
Injection Volume: 1.0 (uL) Dilution Factor: 20.0
GPC Cleanup: (Y/N) N pH: _____
Concentration Units:
Number TICs found: 4 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 144-19-4	1,3-Pentanediol, 2,2,4-trime	14.69	1700	J
2. 65-85-0	Benzoic acid	15.65	570	J
3.	Unknown	17.42	100	J
4. 6738-04-1	1,1'-Biphenyl, 2-phenoxy-	26.61	1100	J
5.				
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EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8336Sample wt/vol: 1000 (g/mL ML)Lab File ID: S0399.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: 100decanted: (Y/N): NDate Extracted: 1/21/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 1/21/93Injection Volume: 1.0 (uL)Dilution Factor: 1.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro o-Cresol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

842894177

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8336Sample wt/vol: 1000 (g/mL MLLab File ID: S0399.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: 100decanted: (Y/N): NDate Extracted: 1/21/93Concentrated Extract Volume: 1000 (uL)Date Analyzed: 1/21/93Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	6000		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	o-Cresol	10		U
106-44-5	p-Cresol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U

842894178

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No. 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8336Sample wt/vol: 5 (g/mL) MLLab File ID: V1133.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: not dec. 100Date Analyzed: 2/2/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 8(ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	4.03	580	J
2. 67-63-0	2-Propanol	4.97	200	J
3. 1708-29-8	Furan, 2,5-dihydro-	7.10	92	J
4. 107-18-6	2-Propen-1-ol	7.61	160	J
5. 646-06-0	1,3-Dioxolane	9.46	72	J
6. 78-83-1	1-Propanol, 2-methyl-	12.78	130	J
7.	Unknown	15.09	50	J
8.	Unknown	22.84	33	J
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EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1916

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O8336

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1133.D

Level: (low/med)

Date Received: 1/21/93

% Moisture: not dec. 100

Date Analyzed: 2/2/93

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

VOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHOLDProject No.: 1916

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O8336Sample wt/vol: 5 (g/mL) MLLab File ID: V1133.D

Level: (low/med) _____

Date Received: 1/21/93% Moisture: not dec. 100Date Analyzed: 2/2/93GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Methyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	5		U
67-64-1	Acetone	130		
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethene	5		U
124-48-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
108-88-3	Toluene	14		
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	5		U
100-42-5	Styrene	5		U

842894181

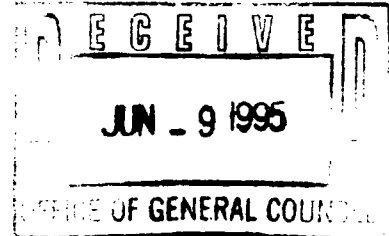
Reichhold Chemicals, Inc.
Coating Polymers & Resins Division
400 Doremus Avenue
Newark, NJ 07105

RECEIVED JUN 14 1991

REICHHOLD

May 31, 1991

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105



ATTENTION: Mr. Carmine Perrapato

Dear Mr. Perrapato:

This is in reference to your letter dated May 15, 1991 about permit number 20406320. As per your requirement, I have filled out the items missing and have corrected the MR-1 report.

If you have any questions, please give me a call during regular business hours.

Sincerely yours,

REICHHOLD CHEMICALS, INC.

Arthur E. Dieffenbach
Arthur E. Dieffenbach
Plant Engineer

AED:cl

CC. BOB NAYJELIS

~~DICKY~~

Dave Bright
Mike Baxi -
K-TAYLOR

842894182

Name REICHHOLD CHEMICALMailing Address 400 DOREMUS AVEFacility Location NEWARK, NEW JERSEY 07205Category & Subpart 40 CFR 414.55 & E. Outlet# 20406320-44100-01Contact Official Joe PONTIER / Mike BAY Telephone# (201) 589-3709

Monitoring Period					
11	05	90	12	31	90
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

	AVG	MAX
Regulated flow-gal/day	6000	9000
Total Flow-gal/day	6000	
Method used	TANK LEVEL	

Parameter		Mass Limit or Concentration			No. of Samples	Sample Comp./s
		Average	Maximum	Units		
BENZENE	Sample measurement	<25	<25	ug/l	1	grab.
	Permit requirement	57	134	ug/l		
CARBON TETRACHLORIDE	Sample measurement	<25	<25	ug/l	1	grab.
	Permit requirement	142	380	ug/l		
CHLORO BENZENE	Sample measurement	<10	<10	ug/l	1	grab
	Permit requirement	142	380	ug/l		
1,2,4 TRI CHLORO BENZENE	Sample measurement	<10	<10	ug/l	1	composit
	Permit requirement	196	794	ug/l		
HOXA CHLORO BENZENE	Sample measurement	<10	<10	ug/l	1	composit
	Permit requirement	196	794	ug/l		
1,2 DICHLORO ETHANE	Sample measurement	<25	<25	ug/l	1	grab.
	Permit requirement	180	574	ug/l		
1,1,1 TRI CHLORO ETHANE	Sample measurement	<25	<25	ug/l	1	grab.
	Permit requirement	22	59	ug/l		
CHLORO - ETHANE	Sample measurement	<10	<10	ug/l	1	Composite
	Permit requirement	196	794	ug/l		
CHLORO FORM	Sample measurement	<25	<25	ug/l	1	grab.
	Permit requirement	22	59	ug/l		

842894183

MONITORING REPORT

Name

REICHOLD CHEMICALS INC

Mailing Address

400 DOREMUS AVE NEWARK NJ 07105

Facility Location

SAME

Category & Subpart

Outlet# 20406320-44100-020

Contact Official JOE POINTEK

Telephone# 589-3709

Monitoring Period					
11	05	90	12	31	90
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

AVG

MAX

Regulated flow-gal/day

Total Flow-gal/day

Method used

Parameter		Mass Limit or Concentration			No. of Samples	Sample to Comp./gr
		Average	Maximum	Units		
1,2 DICHLORO BENZENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	32	127	µg/l		
1,3 DICHLORO BENZENE	Sample measurement	<25	<25	µg/l	1	grab.
	Permit requirement	110	295	µg/l		
1,4 DICHLORO BENZENE	Sample measurement	54	54	µg/l	1	grab.
	Permit requirement	111	325	µg/l		
1,1 DICHLORO ETHYLENE	Sample measurement	<10	<10	µg/l	1	Composite
	Permit requirement	196	794	µg/l		
1,2 TRANS DICHLORO ETHYLENE	Sample measurement	<10	<10	µg/l	1	Composite
	Permit requirement	142	380	µg/l		
1,2 DICHLORO PROPANE	Sample measurement	<10	<10	µg/l	1	Composite
	Permit requirement	142	380	µg/l		
1,3 DICHLORO PROPYLENE	Sample measurement	<25	<25	µg/l	1	grab.
	Permit requirement	22	60	µg/l		
1,2 TRANS DICHLORO ETHYLENE	Sample measurement	<25	<25	µg/l	1	grab.
	Permit requirement	25	66	µg/l		
1,2 DICHLORO PROPANE	Sample measurement	<25	<25	µg/l	1	grab.
	Permit requirement	196	794	µg/l		

PRETREATMENT MONITORING REPORT

Name REICH HOLD CHEMICALS INC.
 Mailing Address 400 DOREMUS AVE NEWARK NJ 07105
 Facility Location SAME
 Category & Subpart _____ Outlet # 020406320-44100-0701
 Contact Official JOE POINTELL Telephone # 589-3709

Monitoring Period					
11	25	90	12	31	90
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period
 Regulated flow-gal/day AVG MAX
 Total flow-gal/day _____
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grs
		Average	Maximum	Units		
1,3 DICHLORO PROPYLENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	196	794	µg/l		
ETHYLE BENZENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	142	380	µg/l		
METHYLENE CHLORIDE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	36	170	µg/l		
METHYL CHLORIDE	Sample measurement	<25	<25	µg/l		
	Permit requirement	110	295	µg/l		
HEXACHLORO BUTADIENE	Sample measurement	<10	<10	µg/l		
	Permit requirement	142	380	µg/l		
NITRO BENZENE	Sample measurement	<10	<10	µg/l		
	Permit requirement	2237	6402	µg/l		
2-NITRO PHENOL	Sample measurement	<10	<10	µg/l		
	Permit requirement	65	231	µg/l		
4-NITRO- PHENOL	Sample measurement	<50	<50	µg/l		
	Permit requirement	162	576	µg/l		
4,6-DINITRO O-CRESOL	Sample measurement	<50	<50	µg/l		
	Permit requirement	178	277	µg/l		

PVSC Form MR-1 Rev. 4/8/87 P1

842894184

Name

REICH HOLD CHEMICALS INC.

Mailing Address

400 DOREMUS AVE NEWARK NJ 07105

Facility Location

SAME

Category & Subpart

Outlet# 020406320-44100-020

Contact Official

JOE POINTELL

Telephone#

589-3709

Monitoring Period					
11	05	90	12	31	90
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

AVG

MAX

Regulated flow-gal/day

Total Flow-gal/day

Method used

Parameter		Mass Limit or Concentration			No. of Samples	Sample t Comp./g
		Average	Maximum	Units		
1,3 DICHLORO PROPYLENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	196	794	µg/l		
ETHYLE BENZENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	142	386	µg/l		
METHYLENE CHLORIDE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	36	170	µg/l		
METHYL CHLORIDE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	110	295	µg/l		
HEXACHLORO BUTADIENE	Sample measurement	<10	<10	µg/l	1	Composite
	Permit requirement	142	380	µg/l		
NITRO BENZENE	Sample measurement	<10	<10	µg/l	1	Composite
	Permit requirement	2237	6402	µg/l		
2-NITRO PHENOL	Sample measurement	<10	<10	µg/l	1	Composite
	Permit requirement	65	231	µg/l		
4-NITRO-PHENOL	Sample measurement	<50	<50	µg/l	1	Composite
	Permit requirement	162	576	µg/l		
4,6-DINITRO O-CRESOL	Sample measurement	<50	<50	µg/l	1	Composite
	Permit requirement	178	277	µg/l		

PVSC Form MR-1 Rev. 4/8/87 P1

842894185

Name REICHOLD CHEMICALS INC
 Mailing Address 400 DOREMUS AVE NEWARK NJ 07105
 Facility Location SAME
 Category & Subpart _____ Outlet# 020406320-44100-0201
 Contact Official JOE POINTEK Telephone# 589-3709

Monitoring Period					
11	05	90	12	31	90
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

 Regulated flow-gal/day _____
 Total Flow-gal/day _____
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gra
		Average	Maximum	Units		
TETRACHLOROETHYLENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	52	164	µg/l		
TOLUENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	28	74	µg/l		
TRICHLOROETHYLENE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	26	69	µg/l		
VINYL CHLORIDE	Sample measurement	<25	<25	µg/l	1	grab
	Permit requirement	47	172	µg/l		
TOTAL CYANIDE	Sample measurement	5	5	µg/l	1	grab
	Permit requirement	420	1200	µg/l		
TOTAL LEAD	Sample measurement	10	10	µg/l	1	Composite
	Permit requirement	320	690	µg/l		
TOTAL ZINC	Sample measurement	120	120	µg/l	1	Composite
	Permit requirement	1050	2610	µg/l		
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

mc

↑
METALS

Name RETCHHOLD CHEMICALS INC.
 Mailing Address 400 DOREMUS AVE NEWARK NJ 07105
 Facility Location SAME
 Category & Subpart _____ Outlet# 020406320-44100-0201
 Contact Official JOE POINTEL Telephone# 589-3709

Monitoring Period					
11	05	90	12	31	90
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period
 Regulated flow-gal/day AVG MAX
 Total Flow-gal/day
 Method used

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<25	<25	ug/l	1	grab
	Permit requirement	52	164	ug/l		
TOLUENE	Sample measurement	<25	<25	ug/l	1	grab
	Permit requirement	28	74	ug/l		
TRICHLORO ETHYLENE	Sample measurement	<25	<25	ug/l	1	grab
	Permit requirement	26	69	ug/l		
VINYL CHLORIDE	Sample measurement	<25	<25	ug/l	1	grab
	Permit requirement	97	172	ug/l		
TOTAL CYANIDE	Sample measurement	5	5	ug/l	1	grab
	Permit requirement	420	1200	ug/l		
TOTAL LEAD	Sample measurement	10	10	ug/l	1	Composite
	Permit requirement	320	690	ug/l		
TOTAL ZINC	Sample measurement	120	120	ug/l	1	Composite
	Permit requirement	1050	2610	ug/l		
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

Certification of Non-use (use additional sheets if necessary)

We neither use nor discharge
any metals.

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

Analytical test indicates that the
permit was in compliance for all
parameter used.

Explain Method for preserving samples

Sampling Bottles are prepared by
Garden State Lab. Samples are taken for
pretreatment effluent and stored in Refrigerator
Either garden state picks up the samples or we
delivered them in 24 hrs. ~~once the~~

Arthur E. Dieffenbach
Signature of Principal
Executive or Authorized Agent

ARTHUR E. DIEFFENBACH

PLANT ENGINEER
Type Name and Title

2/4/91

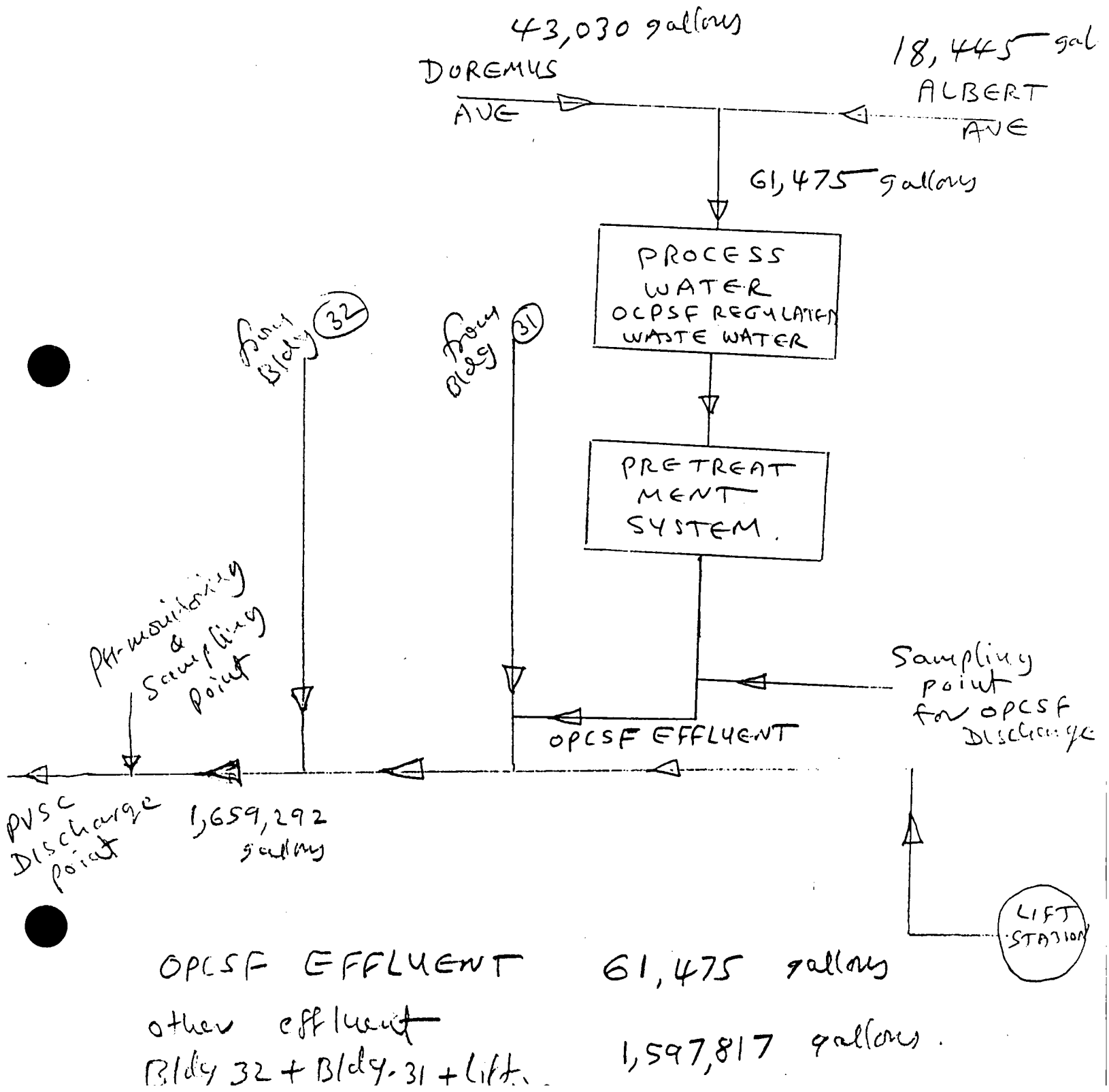
Date

REICHHOLD CHEMICALS, INC.
400 DOREMUS AVENUE
NEWARK, NJ 07105

842894189

WASTE WATER FLOW DIAGRAM

OCPSE REGULATED FLOW



DONALD TUCKER
CHAIRMAN

MOND LUCHKO
CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
JAMES KRONE
FRANK ORECHIO
COMMISSIONERS



**Passaic Valley
Sewerage Commissioners**

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

May 15, 1991

Reichhold Chemical
300-400 Doremus Ave
Newark, NJ 07105
Attn: Mr. Dieffenbach

CERTIFIED RECEIPT
P 718 787 777

**RE: NOTICE OF VIOLATION
PERMIT NO: 20406320
VIOLATION DATE: 2-4-91
SECTION VIOLATED: 403.12d**

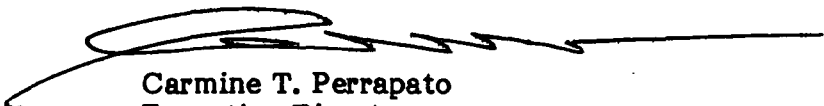
Dear Mr. Dieffenbach:

You are put on notice that your company is in violation of Section 403.12d of the General Pretreatment Regulations for failure to provide all the necessary information to demonstrate compliance with applicable pretreatment limitations. To achieve compliance with the reporting requirements, please note the deficiencies on the attached list and make the appropriate corrections.

Attach the required information to the list and return within 10 days. Failure to do so could result in fines or other penalties. As previously communicated to you under separate cover fines will be assessed if future reports on compliance are either late or incomplete. If you have any questions concerning this matter, please call Mario Graglia at (201) 817-5724.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS



Carmine T. Perrapato
Executive Director

CTP/sl

Attachment

cc: Robert Davenport, Deputy Executive Director
Frank D'Ascensio
City of Newark

842894190

REICHHOLD CHEMICAL DEFICIENCIES

- 4b Proper compliance statement not included
- 5g Maximum and average limitations must be noted in proper place on MR-1 Form
- 7d Note pretreatment and user charge sample points must be properly identified on the flow diagram
- 7e The regulated and unregulated flow must be indicated on the flow diagram

Name Reichhold Chemicals Inc.
Mailing Address 400 Doremus Ave.
Facility Location Newark, N.J. 07105
Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
Contact Official Robert Naujelis Telephone# 201-589-3709

Monitoring Period					
08	01	92	08	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

For Reporting Period
Regulated flow-gal/day 5689 ^{AVG} 6135 ^{MAX}
Total Flow-gal/day 42,617
Method used SEE ATTACHED

Production rate (if applicable)

REGULATED FLOW WAS DISCHARGED ON 10 DAYS

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
BENZENE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	< 100	< 100	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	< 100	< 100	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI CHLOROETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	< 100	< 100	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PVSC Form MR-1 Rev. 4/6/87 P1

842894192

RCI-001-10588

Name Reichhold Chemicals Inc.
Mailing Address 400 Doremus Ave.
Facility Location Newark, N.J. 07105
Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
Contact Official Robert Naujelis Telephone# 201-589-3709

Monitoring Period					
08	01	92	08	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

Regulated flow-gal/day 5689 ^{AVG} 6135 ^{MAX}
Total Flow-gal/day 40617
Method used SEE ATTACHED

REGULATED FLOW WAS DISCHARGED ON 10 DAYS

Parameter		Mass Limit or Concentration			No. of Samples	Sample Comp./g
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	32	127	PPB	1	
CHLOROETHANE	Sample measurement	< 10	< 10	PPB	1	GRAB
	Permit requirement	110	295	PPB	1	
CHLOROFORM	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	111	325	PPB	1	
1,2, DICHLORO BENZENE	Sample measurement	< 100	< 100	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,3, DICHLORO BENZENE	Sample measurement	< 100	< 100	PPB	1	COMPOSITE
	Permit requirement	142	380	PPB	1	
1,4, DICHLORO BENZENE	Sample measurement	< 100	< 100	PPB	1	COMPOSITE
	Permit requirement	142	380	PPB	1	
1,1, DICHLORO ETHYLENE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	22	60	PPB	1	
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	25	66	PPB	1	
1,2, DICHLORO PROPANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	196	794	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

842894193

RCI-001-10589

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official Robert Naujelis

Telephone# 201-589-3709

Monitoring Period					
08	01	92	08	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

Regulated flow-gal/day 56,849 AVG MAX
 Total Flow-gal/day 40,617
 Method used SEE ATTACHED

REGULATED FLOW WAS DISCHARGED ON 10 DAYS

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gts
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	196	794	PPB	1	GRAB
ETHYL BENZENE	Sample measurement	47	47	PPB	1	
	Permit requirement	142	380	PPB	1	GRAB
METHYLENE CHLORIDE	Sample measurement	<5	<5	PPB	1	
	Permit requirement	36	170	PPB	1	GRAB
METHYL CHLORIDE	Sample measurement	<10	<10	PPB	1	
	Permit requirement	110	295	PPB	1	GRAB
HEXACHLORO BUTADIENE	Sample measurement	<100	<100	PPB	1	
	Permit requirement	142	380	PPB	1	COMPOSITE
NITROBENZENE	Sample measurement	<100	<100	PPB	1	
	Permit requirement	2237	6402	PPB	1	COMPOSITE
2-NITRO PHENOL	Sample measurement	<100	<100	PPB	1	
	Permit requirement	65	231	PPB	1	COMPOSITE
4-NITRO PHENOL	Sample measurement	<500	<500	PPB	1	
	Permit requirement	162	576	PPB	1	COMPOSITE
4,6, DINITRO O-CRESOL	Sample measurement	<500	<500	PPB	1	
	Permit requirement	78	277	PPB	1	COMPOSITE

PVSC Form MR-1 Rev. 4 6/87 P1

842894194

RCI-001-10590

Name Reichhold Chemicals Inc.

Mailing Address 400 Doremus Ave.

Facility Location Newark, N.J. 07105

Category & Subpart 40 CFR 414.55 & E

Outlet# 20406320-44100-0201

Contact Official Robert Naujelis

Telephone# 201-589-3709

Monitoring Period					
08	01	92	08	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

Regulated flow-gal/day 5689 ^{AVG} 6135 ^{MAX}
Total Flow-gal/day 40,617
Method used SEE ATTACHED

REGULATED FLOW WAS DISCHARGED ON 10 DAYS

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	8.3	8.3	PPB	1	GRAB
	Permit requirement	52	164	PPB	1	
TOLUENE	Sample measurement	11	11	PPB	1	GRAB
	Permit requirement	28	74	PPB	1	
TRICHLORO ETHYLENE	Sample measurement	<5	<5	PPB	1	GRAB
	Permit requirement	26	69	PPB	1	
VINYL CHLORIDE	Sample measurement	<10	<10	PPB	1	GRAB
	Permit requirement	97	172	PPB	1	
TOTAL CYANIDE	Sample measurement	43	43	PPB	1	GRAB
	Permit requirement	420	1200	PPB	1	
TOTAL LEAD	Sample measurement	<100	<100	PPB	1	COMPOSITE
	Permit requirement	320	690	PPB	1	
TOTAL ZINC	Sample measurement	530	530	PPB	1	COMPOSITE
	Permit requirement	1050	2610	PPB	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT APPLICABLE

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

Test samples for 2-Nitro Phenol, 4-Nitro Phenol and 4,6 Dinitro O-Cresol had to be diluted for injection into column. These materials are not used at this facility, and we do not believe these parameters to be out of compliance. We will request samples to be re-tested without dilution.
Explain Method for preserving samples

See explanation attached

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Robert Naujellis
Signature of Principal
Executive or Authorized Agent

ROBERT NAUJELIS

SITE MANAGER

Type Name and Title

9/14/92
Date

842894197

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF:

REGULATED FLOW FROM
DOREMUS AVENUE

0 GAL.

56,889 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,259,112 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
56,889 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

OCPSF EFFLUENT

PRETREATMENT SAMPLING POI
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

OCPSF REGULATED FLOW: 56,889 GAL.

NON-OCPSF FLOW: 1,259,112 GAL.

TOTAL FLOW: 1,316,001 GAL.

LIFT
STATION

SIGNED: R. Naigh

DATE: 9/14/92

RCI-001-10593

REICHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: AUG. 1, 1992 TO: AUG. 31, 1992

WATER USED @ 390 DOREMUS AVE. ----- 1,000 CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- 176,190 CU. FT.

TOTAL WATER USED AT THE PLANT ----- 177,190

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- 1,325,381 GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- 1,259,112 GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- 56,839 GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- 1,316,001 GALLONS.

NET DISCHARGE TO P.V.S.C. ----- 1,316,001 GALLONS.

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

July 29, 1992 to August 31, 1992

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 7/29/92	47,400	5,704
2. 8/3/92	44,760	5,386
3. 8/7/92	50,980	6,135
4. 8/10/92	44,640	5,372
5. 8/13/92	47,700	5,740
6. 8/17/92	46,840	5,637
7. 8/20/92	48,000	5,776
8. 8/24/92	46,960	5,651
9. 8/27/92	47,640	5,733
10. 8/31/92	47,820	5,755
Total Gallons Recieved From Albert Ave.:		56,889

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

August 1992

1.	Days unit operated during the month:	10
2.	Average volume processed per day:	5,689 gal.
3.	Volume recieved from Albert Ave. plant:	56,889 gal.
4.	Volume generated at Doremus Ave. plant:	0 gal.
5.	Total water treated during the month:	56,889 gal.

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NaOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

842894202

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD

Project No.: 1416 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O2713

Sample wt/vol: 5 (g/mL) ML Lab File ID: V0592.D

Level: (low/med) _____ Date Received: 8/14/92

% Moisture: not dec. 100 Date Analyzed: 8/17/92

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Trichlorofluoromethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	8.3	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	11	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	47	
100-42-5	Styrene	5	U

RCI-001-10598

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1416

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O2713

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V0592.D

Level: (low/med)

Date Received: 8/14/92

% Moisture: not dec. 100

Date Analyzed: 8/17/92

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg)

 ug/μ

Q

[illegible]

RCI-001-10599

842894204

 1B
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHOLD
 Project No.: 1416 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O2713
 Sample wt/vol: 1000 (g/mL ML) Lab File ID: S0220.D
 Level: (low/med) _____ Date Received: 8/14/92
 % Moisture: 100 decanted: (Y/N): N Date Extracted: 8/16/92
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/28/92
 Injection Volume: 1.0 (uL) Dilution Factor: 10.0
 GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	500		UD
132-64-9	Dibenzofuran	100		UD
121-14-2	2,4-Dinitrotoluene	100		UD
84-66-2	Diethylphthalate	100		UD
7005-72-3	4-Chlorophenyl-phenylether	100		UD
86-73-7	Fluorene	100		UD
100-01-6	4-Nitroaniline	500		UD
534-52-1	4,6-Dinitro-2-methylphenol	500		UD
86-30-6	N-Nitrosodiphenylamine	100		UD
101-55-3	4-Bromophenyl-phenylether	100		UD
118-74-1	Hexachlorobenzene	100		UD
87-86-5	Pentachlorophenol	500		UD
85-01-8	Phenanthrene	100		UD
120-12-7	Anthracene	100		UD
84-74-2	Di-n-butylphthalate	100		UD
206-44-0	Fluoranthene	100		UD
129-00-0	Pyrene	100		UD
85-68-7	Butylbenzylphthalate	100		UD
91-94-1	3,3'-Dichlorobenzidine	100		UD
56-55-3	Benzo[a]anthracene	100		UD
218-01-9	Chrysene	100		UD
117-81-7	bis(2-Ethylhexyl)phthalate	100		UD
117-84-0	Di-n-octylphthalate	100		UD
205-99-2	Benzo[b]fluoranthene	100		UD
207-08-9	Benzo[k]fluoranthene	100		UD
50-32-8	Benzo[a]pyrene	100		UD
193-39-5	Indeno[1,2,3-cd]pyrene	100		UD
53-70-3	Dibenz[a,h]anthracene	100		UD
191-24-2	Benzo[g,h,i]perylene	100		UD

RCI-001-10600

842894205

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLDProject No.: 1416

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O2713Sample wt/vol: 1000 (g/mL MLLab File ID: S0220.D

Level: (low/med) _____

Date Received: 8/14/92% Moisture: 100decanted: (Y/N): NDate Extracted: 8/16/92Concentrated Extract Volume: 1000 (uL)Date Analyzed: 8/28/92Injection Volume: 1.0 (uL)Dilution Factor: 10.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	100		UD
111-44-4	bis(2-Chloroethyl)ether	100		UD
95-57-8	2-Chlorophenol	100		UD
0	1,2-Dichlorobenzene	100		UD
541-73-1	1,3-Dichlorobenzene	100		UD
106-46-7	1,4-Dichlorobenzene	100		UD
95-48-7	2-Methylphenol	100		UD
106-44-5	4-Methylphenol	100		UD
621-64-7	N-Nitroso-di-n-propylamine	100		UD
67-72-1	Hexachloroethane	100		UD
98-95-3	Nitrobenzene	100		UD
78-59-1	Isophorone	100		UD
88-75-5	2-Nitrophenol	100		UD
105-67-9	2,4-Dimethylphenol	100		UD
111-91-1	bis(2-Chloroethoxy)methane	100		UD
120-83-2	2,4-Dichlorophenol	100		UD
120-82-1	1,2,4-Trichlorobenzene	100		UD
91-20-3	Naphthalene	100		UD
106-47-8	4-Chloroaniline	100		UD
87-68-3	Hexachlorobutadiene	100		UD
59-50-7	4-Chloro-3-methylphenol	100		UD
91-57-6	2-Methylnaphthalene	100		UD
77-47-4	Hexachlorocyclopentadiene	100		UD
88-06-2	2,4,6-Trichlorophenol	100		UD
95-95-4	2,4,5-Trichlorophenol	500		UD
91-58-7	2-Chloronaphthalene	100		UD
88-74-4	2-Nitroaniline	500		UD
131-11-3	Dimethylphthalate	100		UD
208-96-8	Acenaphthylene	100		UD
606-20-2	2,6-Dinitrotoluene	100		UD
99-09-2	3-Nitroaniline	500		UD
83-32-9	Acenaphthene	100		UD
51-28-5	2,4-Dinitrophenol	500		UD

RCI-001-10601

842894206

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECH Contract: REICHHOLD

Project No.: 1416 Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O2713

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S0220.D

Level: (low/med) _____ Date Received: 8/14/92

% Moisture: 100 decanted: (Y/N) N Date Extracted: 8/16/92

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 8/28/92

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: _____

Concentration Units:

Number TICs found: 15 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1. 57-55-6	1,2-Propanediol	4.09	490	J
2. 111-76-2	Ethanol, 2-butoxy-	7.93	1500	J
3. 126-30-7	1,3-Propanediol, 2,2-dimethy	8.60	500	J
4. 126-30-7	1,3-Propanediol, 2,2-dimethy	9.37	2700	J
5. 126-30-7	1,3-Propanediol, 2,2-dimethy	9.55	700	J
6. 144-19-4	1,3-Pentanediol, 2,2,4-trime	13.35	40	J
7. 144-19-4	1,3-Pentanediol, 2,2,4-trime	13.82	400	J
8. 85-44-9	Phthalic anhydride	16.63	950	J
9. 144-19-4	1,3-Pentanediol, 2,2,4-trime	17.52	810	J
10. 1077-58-3	4-tert-Butylbenzoic acid	19.78	340	J
11. 18272-84-9	Benzene, 1-butyl-4-methoxy-	20.77	460	J
12. 10348-47-7	Pentanoic acid, 2-hydroxy-4-	21.33	280	J
13. 57-10-3	Hexadecanoic acid	26.27	450	J
14. 56196-06-6	Cyclopropaneoctanal, 2-octyl	28.61	3800	J
15. 29053-04-1	Cyclopentane, 1-methyl-3-(2-	30.68	380	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

RCI-001-10602

842894207

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: CHEMTECH Contract: REICHHOLD EFFLUENT

Lab Code: 1416 Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/wate WATER) Lab Sample ID: 1416-2713

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P0091.CHR

% Moisture 100 decanted: (Y/N) N Date Received: 08/14/92

Extraction: (SepF/Cont/Sonc) _____ Date Extracted 08/16/92

Concentrated Extract Volum 10000 (uL) Date Analyzed: 08/28/92

Injection Volume: 2 (uL) Dilution Facto 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC (Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4'-DDE	0.1	U
72-20-8	Endrin	0.1	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4'-DDD	0.1	U
1031-07-8	Endosulfan sulfate	0.1	U
50-29-3	4,4'-DDT	0.1	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin ketone	0.1	U
7421-36-3	Endrin aldehyde	0.1	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5	U
12674-11-2	Aroclor-1016	1	U
11104-28-2	Aroclor-1221	1	U
11141-16-5	Aroclor-1232	2	U
53469-21-9	Aroclor-1242	1	U

RCI-001-10603

842894208

 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

S

Lab Name: CHEMTECH Contract: REICHHOLD
 Project No.: 1416 Site: _____ Location: _____ Gr: _____
 Matrix: (soil/water) WATER Lab Sample ID: 02714
 Sample wt/vol: 5 (g/mL) ML Lab File ID: V0591.1
 Level: (low/med) _____ Date Received: 8/14/99
 % Moisture: not dec. 100 Date Analyzed: 8/17/99
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Trichlorofluoromethane	10	U
75-09-2	Methylene Chloride	15	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	12	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

RCI-001-10604

Lab Name: CHEMTECH

Contract: REICHHOLD

Project No.: 1416

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O2714

Sample wt/vol: 5 (g/mL) mL

Lab File ID: V0591.D

Level: (low/med)

Date Received: 8/14/92

% Moisture: not dec. 100

Date Analyzed: 8/17/92

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume:

Concentration Units:

(ug/L or ug/Kg)

 $\mu g/L$

Q

[illegible]

CHAIN OF CUSTODY RECORD

[illegible]

RCI-001-10606

842894211

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: MR. NAUJELIS

PROJECT NAME: 1416
DATE: 09/10/92

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 2713

CYANIDE, TOTAL	mg/L	0.043
LEAD, TOTAL	mg/L	<0.1
ZINC, TOTAL	mg/L	0.53

LABORATORY DIRECTOR



RCI-001-10607

842894212

CHEMTECH

CONSULTING GROUP, INC

110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

DATA REPORTING QUALIFIERS ORGANIC

For reporting results the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compounds (library search hits) where a 1:1 response is assumed.
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analytes concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factors.

RCI-001-10608

842894213

FROM REICHHOLD CHEMICALS, INC.

NEWARK, N.J. (800) 298-3000

ROUTE 45 ALBERT AVENUE

Delivery Address
(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

CONSIGNED TO: REICHHOLD CHEMICALS

SHIP TO

400 DOREMUS AVENUE
NEWARK, N.J. 07105

SOLD TO

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), insured, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry or cause to be carried to said destination, if on its route, otherwise to deliver to another carrier on the basis of said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party in any time interest in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading as forth in the Uniform Freight Classification in effect on the date hereof. It has to a rail or a water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

CUST. ORDER NO.

SH DATE

CAR INITIALS & NO.

SHIPPED VIA

NO. TYPE
PACKAGESDESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NOW NOT REGULATED MATERIAL
(WASTE PUMP WORK)

47720

RCI-001-10609

REMIT
C.O.D. TO:
ADDRESS

COD

Amt. \$

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding:

\$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign following statement.

The carrier shall not make delivery of this shipment without payment freight and all other lawful charges.

Signature of Consignor

REICHHOLD CHEMICALS, INC., Shipper,

Per _____
Permanent post-office address of shipper.

PO BOX 12500

Carrier hereby acknowledges that the shipper provided the required placards for the hazardous materials named on this Bill of Lading.

INITIAL _____

Carrier certifies shipment is a _____ commodity.

INITIAL _____

842894214

DUM

is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

CAR OR VEHICLE
INITIALS AND NO.

to the classification and tariffs in effect on the date of the issue of this Bill of Lading.

REICHOLD CHEMICALS, INC. at

46 ALBERT AVENUE

Delivery
Address
(*To be filled in only when shipper desires and
governing tariffs provide for delivery thereat.)

NEWARK, N.J. 07105
CONSIGNED TO (Name of Street Address of Consignee for Purposes of Notification Only)

REICHOLD CHEMICAL
400 DOREMUS AVENUE
NEWARK, N.J. 07105

FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

Received \$
to apply in prepayment
the property described in

Agent or Cas

Per
(The signature here acts
the amount prepaid.)

Charges Advan

S

the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and delivered as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time involved in all or any of said property, that every device to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a waterway shipment, or (2) in the applicable motor carrier classification of tariff of this is a motor carrier shipment.

Shippers hereby certify that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, and that he is familiar with the classification on tariff which governs the transportation of the shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

SHIPPER'S NUM.

10838

SHIPPED VIA

PREPAID \$

ALLOWED CHARGE

CC

NO./TYPE
PACKAGES

DESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NON DOT REGULATED MATERIAL
(WATER RESIN BTEX)

47640

RCI-001-1061

AIT
O
DH

COD

Amt. \$

C.O.D. FEE;
PREPAID ☐
COLLECT ☐

\$

is to certify that the above-named materials properly classified, described, packaged, marked, labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding:

\$ per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

TOTAL CHARGES: \$
FREIGHT CHARGES
FREIGHT PREPAID ☐ Check box if
except when box is ☐

(Signature of Consignor)

842894215

CARRIER:

RECEIVED, subject to the classifications and conditions effect on the date of the issue of this Bill of Lading.

FROM REICHOLD CHEMICALS, INC. at

46 ALBERT AVENUE

ROUTE NEWARK, N.J. 07105

CAR OR VEHICLE
INITIALS AND NO.Delivery
Address:(*To be filled in only when shipper desires and
governing tariffs provide for delivery thereto.)

CONSIGNED TO (Mail or Street Address of Consignee For Purposes of Notification Only)

REICHOLD CHEMICALS

400 DOREMUS AVENUE

NEWARK, N.J. 07105

FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

Received \$ _____
to apply in prepayment of the or
the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledged
the amount prepaid.)

Charges Advanced

\$

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

SHIPPER'S NUMBER

108395

PREPAID &
ALLOWED CHARGE COLLECT

SHIPPED VIA

NO./TYPE
PACKAGESDESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NON DOT REGULATED MATERIAL
(WASTE RESIN BULK)

RCI-001-10611

HT
D. TO:
RESS

COD

Amt. \$

C.O.D. FEE:
PREPAID ☐
COLLECT ☐TOTAL
CHARGES: \$FREIGHT CHARGES
FREIGHT PREPAID ☐ Check box if charge
except when box at night is checked. ☐ are to
collectis to certify that the above-named materials
are in proper condition for transporta-
according to the applicable regulations of the
ment of Transportation.NOTE- Where the rate is dependent on value, shippers are
required to state specifically in writing the agreed or declared
value of the property.
The agreed or declared value of the property is hereby
specifically stated by the shipper to be not exceeding.

\$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to
the consignee without recourse on the consignor, the consignor shall sign the
following statement:
The carrier shall not make delivery of this shipment without payment of
freight and all other lawful charges.

(Signature of Consignor)

CHHOLD CHEMICALS, INC., Shipper,

Carrier hereby acknowledges that the shipper provided the
required placards for the hazardous materials named on this Bill
of Lading.

INITIAL _____

Carrier certifies that the container supplied by carrier for the
shipment is a proper container for the transportation of the
commodities named on this Bill of Lading.

842894216

THIS MEMORANDUM is a copy or duplicate, covering the property named herein, and is intended to be used as a receipt for the property.

CARRIER:

CAR OR VEHICLE
INITIALS AND NO.RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.
FROM REICHHOLD CHEMICALS, INC. atROUTE 46 ALBERT AVENUE
NEWARK, N.J. 07105Delivery
Address
("To be filled in only when shipper desires and
governing tariffs provide for delivery thereof.)

CONSIGNEE TO (Mail or Street Address of Consignee For Purposes of Notification Only)

SHIP
TOREICHHOLD CHEMICALS
400 DOREMUS AVENUE
NEWARK, N.J. 07105FOR HELP IN CHEMICAL EMERGEN
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

S
D
I
T
O

The property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, counted, and delivered as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation which has taken or shall take possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination, it is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time entered in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted by himself and his assigns.

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

8

20

92

W-202

SHIPPED VIA:

N A P P I

NO./TYPE
PACKAGESDESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NON DOT REGULATED MATERIAL
(WATER RESIN BTEX)

14.8200

RCI-001-10612

REMIT
C.O.D. TO:
ADDRESS

COD

Amt. \$

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE— Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.

\$ _____ 20%

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

REICHHOLD CHEMICALS, INC., Shipper,

Per _____
Permanent post-office address of shipper.P.O. BOX 13582
RESEARCH TRIANGLE PARK, NC 27709

Carrier hereby acknowledges that the shipper provided the required placards for the hazardous materials named on this Bill of Lading.

INITIAL: _____

Carrier certifies that the shipment is a proper non-commodities named on this

INITIAL: _____

842894217

UM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the goods named herein, and is intended solely for filing or record.

CAR OR VEHICLE
INITIALS AND NO.

Subject to the classifications and regulations in effect on the date of the issue of this Bill of Lading.

REICHHOLD CHEMICALS, INC. at

46 ALBERT AVENUE

ROUTE NEWARK, N.J. 07105

Delivery

Address
(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

CONSIGNEE TO (Must be Street Address of Consignee for Purposes of Notification Only)

REICHHOLD CHEMICALS

400 DOREMUS AVENUE

NEWARK, N.J. 07105

FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated herein, which said carrier (the word carrier being understood to mean the carrier or carriers, jointly or severally, who are the parties to the contract of carriage) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property, that each carrier shall be responsible for the safe delivery of said property to the consignee, and as to each carrier, if any time is involved in all or any of said property, that every carrier to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Tariff (U.D.T.) and the applicable motor carrier classification or tariff if this is a motor carrier shipment, or (2) in the applicable motor carrier classification or tariff if this is a rail or water shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

7 10 12 207/116

SHIPPED VIA:

NO./TYPE
PACKAGES

DESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NON DOT REGULATED MATERIAL
(WATER RESIN STEM)

4/12/12

RCI-001-10613

REMIT
C.O.D. TO:
ADDRESS

COD

Amt. \$

C.O.D.
PREPA
COLLE

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding:

\$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor

TOTAL
CHARGE

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FREIGHT P
except wh
right is che

REICHHOLD CHEMICALS, INC., Shipper,

Carrier hereby acknowledges that the shipper provided the required placards for the hazardous materials named on this Bill of Lading.

Carrier certifies that the container shipment is a proper container for commodities named on this Bill

INITIAL

Per
Permanent post-office address of shipper,

P.O. BOX 13582

842894218

LADING—SHORT FORM—Original—Not Negotiable.

CAR OR VEHICLE
INITIALS AND NO.

In classifications and tariffs in effect on the date of the issue of this Bill of Lading.

HOLD CHEMICALS, INC. AT

ALBERT AVENUE

NEWARK, N.J. 07105

SIGNED TO: (Not to Street Address of Consignee for Purposes of Notification Only)

REICHHOLD CHEMICALS
400 DOREMUS AVENUE
NEWARK, N.J. 07105Delivery
Address
(*To be filled in only when shipper desires and
governing tariffs provide for delivery thereat.)FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

S
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T
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The property described below, in accordance with the terms and conditions of the contract of carriage, is being transported by the carrier named herein. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the contract of carriage. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the contract of carriage. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the contract of carriage.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, and that he agrees to be bound by the classification and tariff which governs the transportation of the shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

8 13 92 954/W209

SHIPPED VIA:

NO./TYPE
PACKAGESDESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NON DOT REGULATED MATERIAL
(WATER RESIN BTEX)

Comp #1

17700

RCI-001-10614

REMIT
C.O.D. TO:
ADDRESS

COD

Amt. \$

C.O.D. F
PREPAID
COLLECT

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding:

\$ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor

TOTAL
CHARGE
FREIGHT
PREPAID
except when
right is checked

REICHHOLD CHEMICALS, INC., Shipper,

Carrier hereby acknowledges that the shipper provided the required placards for the hazardous materials named on this Bill of Lading.

Carrier certifies that the contents of this shipment is a proper container commodities named on this Bill of Lading.

Per
Permanent post-office address of shipper.

PO BOX 22002

7946 0-1395

842894219

CAR OR VEHICLE
INITIALS AND NO.

the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

REICHOLD CHEMICALS, INC. at

Delivery

Address

To be filled in only when shipper desires and
governing tariffs provide for delivery thereat.

ROUTE 46 ALBERT AVENUE

CONSIGNED TO: (Must be Signed Agent of Consignee for Purposes of Identification Only)

SHIP
TOREICHOLD CHEMICALS
400 DOREMUS AVENUE
NEWARK, N.J. 07105FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

S
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The property described herein, in apparent good order, except as noted (Contents and condition of containers or packages
unexamined), marked, consigned, and delivered as indicated herein, which said carrier (the word carrier being understood
throughout this contract as meaning any person or corporation or partnership of the property unless the contract agrees
to carry to a special place of delivery or said destination, if on its route, otherwise to deliver to another carrier on the
route to said destination, is mutually agreed, as to each carrier of it or any of said property over all or any portion of
said route to destination, and as to each party in any time entered in all or any of said property, that every service to
be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Tariff Bill of Lading
as forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a water shipment, or (2) in
the applicable motor carrier classification of tariff, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those
on the back thereof, and that he is familiar with the classification or tariff which governs the transportation of this shipment, and the
said terms and conditions are hereby agreed to by the shipper and assigned for himself and his assigns.

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

SHIPPED VIA:

NO./TYPE
PACKAGESDESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WASTE
NON DOT REGULATED MATERIAL
(WASTE RESIN BTEX)

44760

RCI-001-10615

REMIT
C.O.D. TO:
ADDRESS

COD

Amt. \$

C.O.D. F
PREPAID
COLLECT

This is to certify that the above-named materials
are properly classified, described, packaged, marked
and labeled and are in proper condition for transporta-
tion according to the applicable regulations of the
Department of Transportation.

NOTE— Where the rate is dependent on value, shippers are
required to state specifically in writing the agreed or declared
value of the property.
The agreed or declared value of the property is hereby
specifically stated by the shipper to be not exceeding
\$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to
the consignee without recourse on the consignor, the consignor shall sign the
following statement:
The carrier shall not make delivery of this shipment without payment of
freight and all other lawful charges.

(Signature of Consignor)

TOTAL
CHARGE
FR
FREIGHT PR
except whe
right is oth

REICHOLD CHEMICALS, INC., Shipper,

Per _____
Permanent post-office address of shipper.

P.O. BOX 13582

RESEARCH TRIANGLE PARK, NC 27709

Carrier hereby acknowledges that the shipper provided the
required placards for the hazardous materials named on this Bill
of Lading.

INITIAL: _____

Carrier certifies that the container
shipment is a proper container
commodities named on this Bill

INITIAL: _____

Agent

C. H. H. H.

As report of the Bill of Lading.

CAR OR VEHICLE
INITIALS AND NO

Delivery Address: _____
To be used only when shipper desires a:
governing tariff provide for delivery thereat

842894220

ROUTE

REICHHOLD CHEMICALS
400 DORRUS AVENUE
NEWARK, N.J. 07105

**FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT**

CHEMTREC: 800-424-9300

[illegible]

Shorewest hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those in the back thereof, as forth in the classification on tariff which governs the transportation of this shipment, and the terms, conditions, and liabilities agreed to by the shipper and accepted by himself, in his capacity as

CUST ORDER NO

84 051

CAR INITIALS & NO.

279 209

22

1-800-368-2868

SHIPPED VIA:

N A F D S

NO TYPE
PACKAGES

DESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD CODE

WASTE PROCESS WATER
NON DDT REGULATED MATERIAL
(WATER RESIN BTEX)

598.

RCI-001-10616

REMIT
P.O.D. TO:
ADDRESS

COD

AML 5

C.O.D. FEE:
PREPAID
COLLECT

TOTAL CHARGES:	\$
----------------	----

FREIGHT CHARGE.
FREIGHT PREPAID ☒ Check box.
except when box or ☐
note is checked.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Deposito

REICHOLD CHEMICALS, INC., Shipper,

Carrier hereby acknowledges that the shipper provided the required placards for the hazardous materials named on this Bill of Lading.

Carrier certifies that the container supplied by carrier in shipment is a proper container for the transportation of commodities named on this Bill of Lading.

INITIAL:

INITIAL

P.O. BOX 13582
RESEARCH TRIANGLE PARK, NC 27709

Agent

...not negotiable.

CAR OR VEHICLE
INITIALS AND NO.

FROM REICHOLD CHEMICALS, INC. at

NEWARK, N.J. 07105

Delivery Address:
(To be filled in only when shipper desires and
governing laws provide for delivery thereof.)

842894221

ROUTE

CONSIGNED TO (After First Acceptance of Car, Free For Purpose of Reinsurance Only)

REICHOLD CHEMICALS
400 DOREMUS AVENUE
NEWARK, N.J. 07105

FOR HELP IN CHEMICAL EMERGEN-
CIES INVOLVING SPILL, LEAK, FIRE
OR EXPOSURE, CALL TOLL FREE
DAY OR NIGHT

CHEMTREC: 800-424-9300

The property described herein, as shipped, is subject to the terms and conditions of the bill of lading and the bill of lading is subject to the terms and conditions of the bill of lading. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the bill of lading. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the bill of lading. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the bill of lading.

Shippers hereby certify that the property described herein is in conformity with the bill of lading and the bill of lading is subject to the terms and conditions of the bill of lading. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the bill of lading. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the bill of lading. The carrier is not responsible for the loss of or damage to the property described herein, except as provided in the bill of lading.

CUST. ORDER NO.

SH. DATE

CAR INITIALS & NO.

07 29 92

602

SHIP VIA:

REG NAPP

NO./TYPE
PACKAGES

DESCRIPTION AND CLASSIFICATION
(Proper Shipping Name and Class per 49 CFR 172.101)

GROSS

NET

PROD. CODE

WASTE PROCESS WATER
NON DOT REGULATED MATERIAL
(WATER RESIN BTEX)

42040

RCI-001-10617

EMIT
O.D. TO:
DORESS

COD

AMT. \$

C.O.D. FEE:
PREPAID ☐
COLLECT ☐

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NOTE— Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding:

\$ _____ per _____

Subject to Section 7 of the conditions of this shipment is to be delivered to the consignee without recourse on the consignee, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signatures of Consignor)

TOTAL CHARGES:

FREIGHT CHARGES:

except when box at right is checked.

REICHOLD CHEMICALS, INC., Shipper,

A. Well

P.O. BOX 13582
RESEARCH TRIANGLE PARK, NC 27709

Carrier hereby acknowledges that the shipper provided the required placards for the hazardous materials named on this Bill of Lading.

INITIAL:

Carrier certifies that the container supplied is a proper container for the transportation of commodities named on this Bill of Lading.

INITIAL:

Agent

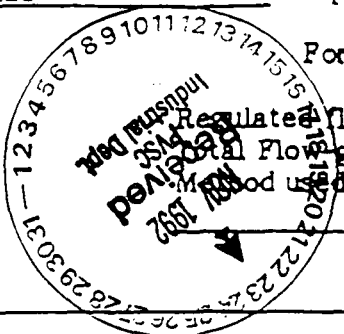
Napp

PRETREATMENT MONITORING REPORT

842894223

Name Reichhold Chemicals Inc.
 Mailing Address 400 Doremus Ave.
 Facility Location Newark, N.J. 07105
 Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201
 Contact Official Robert Naujalis Telephone# 201-589-3709

Monitoring Period					
10	1	92	10	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					



For Reporting Period
 AVG
 Regulated flow-gal/day 5,811
 Total Flow-gal/day 42,766
 MAX
6,099

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grab
		Average	Maximum	Units		
BENZENE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	57	134	PPB	1	
CARBON TETRA CHLORIDE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
CHLORO- BENZENE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	142	380	PPB	1	
1,2,4, TRI CHLOROBENZENE	Sample measurement	< 10	< 10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
HEXACHLORO BENZENE	Sample measurement	< 10	< 10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,2, DICHLORO ETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	180	574	PPB	1	
1,1,1, TRI- CHLOROETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	
HEXACHLORO ETHANE	Sample measurement	< 10	< 10	PPB	1	COMPOSITE
	Permit requirement	196	794	PPB	1	
1,1, DICHLORO ETHANE	Sample measurement	< 5	< 5	PPB	1	GRAB
	Permit requirement	22	59	PPB	1	

PVSC Form MR-1 Rev. 4 6/87 P1

RCI-001-10563

PRETREATMENT MONITORING PORTName Reichhold Chemicals Inc.Mailing Address 400 Doremus Ave.Facility Location Newark, N.J. 07105Category & Subpart 40 CFR 414.55 & EOutlet# 20406320-44100-0201Contact Official Robert NaujelisTelephone# 201-589-3709

Monitoring Period					
10	1	92	10	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day 5811 ^{AVG} 6099 ^{MAX}
 Total Flow-gal/day 42766
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./grat
		Average	Maximum	Units		
1,3, DICHLORO PROPYLENE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	196	794	PPB	1	
ETHYL BENZENE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	142	380	PPB	1	
METHYLENE CHLORIDE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	36	170	PPB	1	
METHYL CHLORIDE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	110	295	PPB	1	
HEXACHLORO BUTADIENE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	142	380	PPB	1	
NITROBENZENE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	2237	6402	PPB	1	
2-NITRO PHENOL	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	65	231	PPB	1	
4-NITRO PHENOL	Sample measurement	<u>< 50</u>	<u>< 50</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	162	576	PPB	1	
4,6, DINITRO OHMCRESOL	Sample measurement	<u>< 50</u>	<u>< 50</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	78	277	PPB	1	

PRETREATMENT MONITORING REPORTName Reichhold Chemicals Inc.Mailing Address 400 Doremus Ave.Facility Location Newark, N.J. 07105Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201Contact Official Robert Naujelis Telephone# 201-589-3709

Monitoring Period					
10	1	92	10	31	92
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		
Production rate (if applicable)					

For Reporting Period

Regulated flow-gal/day 5811 ^{AVG} 6099 ^{MAX}
 Total Flow-gal/day 42,766
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr.
		Average	Maximum	Units		
1,1,2, TRI-CHLOROETHANE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	32	127	PPB	1	GRAB
CHLOROETHANE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	110	295	PPB	1	GRAB
CHLOROFORM	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	111	325	PPB	1	GRAB
1,2, DICHLORO BENZENE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	196	794	PPB	1	COMPOSITE
1,3, DICHLORO BENZENE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,4, DICHLORO BENZENE	Sample measurement	<u>< 10</u>	<u>< 10</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	142	380	PPB	1	COMPOSITE
1,1, DICHLORO ETHYLENE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	22	60	PPB	1	GRAB
1,2, TRANS DI-CHLOROETHYLENE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	25	66	PPB	1	GRAB
1,2, DICHLORO PROPANE	Sample measurement	<u>< 5</u>	<u>< 5</u>	<u>PPB</u>	<u>1</u>	
	Permit requirement	196	794	PPB	1	GRAB

PRETREATMENT MONITORING REPORTName Reichhold Chemicals Inc.Mailing Address 400 Doremus Ave.Facility Location Newark, N.J. 07105Category & Subpart 40 CFR 414.55 & E Outlet# 20406320-44100-0201Contact Official Robert Naujelis Telephone# 201-589-3709

Monitoring Period					
<u>10</u>	<u>1</u>	<u>92</u>	<u>10</u>	<u>31</u>	<u>92</u>
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable) _____

For Reporting Period

Regulated flow-gal/day 5811 AVG MAX
 Total Flow-gal/day 42,766
 Method used _____

Parameter		Mass Limit or Concentration			No. of Samples	Sample type Comp./gr.
		Average	Maximum	Units		
TETRACHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	52	164	PPB	1	
TOLUENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	28	74	PPB	1	
TRICHLORO ETHYLENE	Sample measurement	<u><5</u>	<u><5</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	26	69	PPB	1	
VINYL CHLORIDE	Sample measurement	<u><10</u>	<u><10</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	97	172	PPB	1	
TOTAL CYANIDE	Sample measurement	<u>140</u>	<u>140</u>	<u>PPB</u>	<u>1</u>	GRAB
	Permit requirement	420	1200	PPB	1	
TOTAL LEAD	Sample measurement	<u>80</u>	<u>80</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	320	690	PPB	1	
TOTAL ZINC	Sample measurement	<u>1090</u>	<u>1090</u>	<u>PPB</u>	<u>1</u>	COMPOSITE
	Permit requirement	1050	2610	PPB	1	
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

RETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

NOT REQUIRED

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.


NOT REQUIRED

Explain Method for preserving samples

ATTACHED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988


Signature of Principal
Executive or Authorized Agent

ROBERT NAUTILIS

SITE MGR
Type Name and Title

11/20/92
Date

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

842894228

WASTE WATER FLOW DIAGRAM - OCPSF REGULATED
FOR MONTH OF: OCTOBER 1992

REGULATED FLOW FROM
DOREMUS AVENUE

0 GAL.

42,766 GAL.

REGULATED FLOW FROM
ALBERT AVENUE

DOREMUS AVE. NON-OCPSF FLOW
1,290,876 GALLONS

PROCESS WATER, OCPSF
REGULATED WATER
42,766 GALLONS

PRE TREATMENT SYSTEM

PH MONITORING AND
SAMPLING POINT

USER CHARGES

OCPSF EFFLUENT

PRETREATMENT SAMPLING POINT
FOR OCPSF DISCHARGE

PLANT DISCHARGE TO PVSC

LIFT
STATION

OCPSF REGULATED FLOW: 42,766 GAL.

NON-OCPSF FLOW: 1,290,876 GAL.

TOTAL FLOW: 1,325,743 GAL.

SIGNED: R. Nairn

DATE: 11/20/92

RCI-001-10568

842894229

SAMPLE PRESERVATION METHOD

FOR METALS: 2 ML OF 1+1 HNO WAS ADDED TO THE 1 LITER BOTTLE.

FOR CYANIDES: 2 ML OF 10 N NAOH WAS ADDED TO THE 1 LITER GLASS BOTTLE.

FOR A/B/N: NO PRESERVATIVE REQUIRED. A ONE LITER GLASS BOTTLE WITH TEFLON LINED CAP WAS USED.

FOR VOA: 25 MILLIGRAMS OF ASCORBIC ACID AND 3 DROPS OF 1+1 HCL WAS ADDED TO A PRE-CLEANED VIAL WITH TEFLON SEPTUM.

RCI-001-10569

842894230

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

OCPSF Process Water Shipments From Reichhold, Albert Ave.

October 1, 1992 to October 31, 1992

<u>Date of Shipment</u>	<u>Lbs. of Water</u>	<u>Gallons of Water</u>
1. 10/5/92	48,167	5,796
2. 10/10/92	48,380	5,822
3. 10/16/92	50,680	6,099
4. 10/21/92	48,880	5,882
5. 10/27/92	47,260	5,687
6. 10/30/92	46,380	5,581

Total Gallons Recieved From Albert Ave.: 34,867

RCI-001-10570

842894231

Reichhold Chemicals Inc.
400 Doremus Ave.
Newark, N.J. 07105

Log of OCPSF Pretreatment Unit Operation

October 1992

1. Days unit operated during the month: 6
2. Average volume processed per day: 5,811 gal.
3. Volume recieved from Albert Ave. plant: 34,867 gal.
4. Volume generated at Doremus Ave. plant: 0 gal.
5. Total water treated during the month: 34,867 gal.

RCI-001-10571

842894232

REICHHOLD CHEMICALS INC.
400 DOREMUS AVE.
NEWARK, N.J. 07105
PERMIT# 20406320 - 44100 - 0201

USER SELF MONITOR REPORT WORKSHEET FOR NET DISCHARGE TO PVSC

PERIOD FROM: 10/1/92 TO: 10/31/92

WATER USED @ 390 DOREMUS AVE. ----- 60,553 CU. FT.

WATER USED @ 400 DOREMUS AVE. ----- 121,107 CU. FT.

TOTAL WATER USED AT THE PLANT ----- 181,660

CONVERSION FACTOR ----- X 7.48 GAL/CU. FT.

WATER USAGE ----- 1,358,817 GALLONS.

5% EVAPORATION ----- X 0.95

NET WATER USAGE ----- 1,290,876 GALLONS.

PROCESS WATER RECEIVED
FROM ALBERT AVE. PLANT ----- 34,867 GALLONS.

TOTAL WATER INTO DOREMUS AVE. ----- 1,325,743 GALLONS.

NET DISCHARGE TO P.V.S.C. ----- 1,325,743 GALLONS.

RCI-001-10572

842894233

CHEMTECH
CONSULTING GROUP, INC.

LABORATORY REPORT

REPORT OF ANALYSES

REICHOLD CHEMICAL, INC.
300-400 DOREMUS AVENUE
NEWARK, NJ 07105-
Attn: MR. NAUJELIS

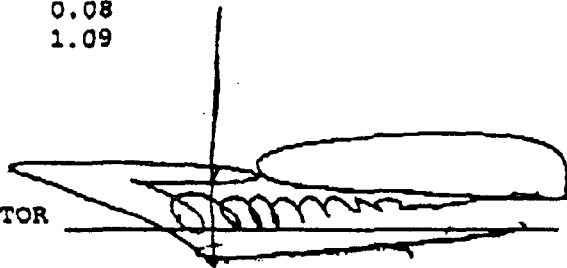
DATE: 11/23/92

(Page 1 of 1)

CLIENT STATION ID: EFFLUENT
LAB #: 5444

CYANIDE, TOTAL	mg/L	0.14
COPPER, TOTAL	mg/L	0.09
LEAD, TOTAL	mg/L	0.08
ZINC, TOTAL	mg/L	1.09

LABORATORY DIRECTOR



RCI-001-10573

110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-8868 Fax: (201) 567-1333

NYSDOH Certification No. 10624

NJDEPE Certification No. 02178

842894234

 1A
 VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEM.Project No.: 1649

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O5444Sample wt/vol: 5 (g/mL) MLLab File ID: V0751.D

Level: (low/med) _____

Date Received: 11/2/92% Moisture: not dec. 100Date Analyzed: 11/3/92GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
74-87-3	Methyl Chloride	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Trichlorofluoromethane	10		U
75-09-2	Methylene Chloride	5		U
67-64-1	Acetone	10		U
75-15-0	Carbon Disulfide	5		U
75-35-4	1,1-Dichloroethylene	5		U
75-34-4	1,1-Dichloroethane	5		U
540-59-0	1,2-Dichloroethene (total)	5		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	5		U
78-87-5	1,2-Dichloropropane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
79-01-6	Trichloroethylene	5		U
124-48-1	Dibromochloromethane	5		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	5		U
108-10-1	4-Methyl-2-Pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethylene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
108-88-3	Toluene	5		U
108-90-7	Chlorobenzene	5		U
100-41-4	Ethylbenzene	5		U
100-42-5	Styrene	5		U

EFFLUENT

Lab Name: CHEMTECH

Contract: REICHHOLD CHEM.

Project No.: 1649

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: 05444

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V0751.D

Level: (low/med)

Date Received: 11/2/92

% Moisture: not dec. 100

Date Analyzed: 11/3/92

GC Column: DB-624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

CAS No.

Compound

(ug/L or ug/Kg)

ug/L

Q

[illegible]

842894236

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEMProject No.: 1649

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: Q5444Sample wt/vol: 1000 (g/mL ML)Lab File ID: S0350.D

Level: (low/med) _____

Date Received: 11/2/92% Moisture: 100decanted: (Y/N): NDate Extracted: 11/6/92Concentrated Extract Volume: 1000 (uL)Date Analyzed: 11/16/92Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
108-95-2	Phenol	9600		
111-44-4	bis(2-Chloroethyl)ether	10		U
95-57-8	2-Chlorophenol	10		U
0	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
621-64-7	N-Nitroso-di-n-propylamine	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
78-59-1	Isophorone	10		U
88-75-5	2-Nitrophenol	10		U
105-67-9	2,4-Dimethylphenol	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
120-83-2	2,4-Dichlorophenol	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
91-20-3	Naphthalene	10		U
106-47-8	4-Chloroaniline	10		U
87-68-3	Hexachlorobutadiene	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-57-6	2-Methylnaphthalene	10		U
77-47-4	Hexachlorocyclopentadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
91-58-7	2-Chloronaphthalene	10		U
88-74-4	2-Nitroaniline	50		U
131-11-3	Dimethylphthalate	10		U
208-96-8	Acenaphthylene	10		U
606-20-2	2,6-Dinitrotoluene	10		U
99-09-2	3-Nitroaniline	50		U
83-32-9	Acenaphthene	10		U
51-28-5	2,4-Dinitrophenol	50		U

842894237

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEMProject No.: 1649

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: Q5444Sample wt/vol: 1000 (g/mL ML)Lab File ID: S0350.D

Level: (low/med) _____

Date Received: 11/2/92% Moisture: 100decanted: (Y/N): NDate Extracted: 11/6/92Concentrated Extract Volume: 1000 (uL)Date Analyzed: 11/16/92Injection Volume: 1.0 (uL)Dilution Factor: 20.0GPC Cleanup: (Y/N) N

pH: _____

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-02-7	4-Nitrophenol	50		U
132-64-9	Dibenzofuran	10		U
121-14-2	2,4-Dinitrotoluene	10		U
84-66-2	Diethylphthalate	10		U
7005-72-3	4-Chlorophenyl-phenylether	10		U
86-73-7	Fluorene	10		U
100-01-6	4-Nitroaniline	50		U
534-52-1	4,6-Dinitro-2-methylphenol	50		U
86-30-6	N-Nitrosodiphenylamine	10		U
101-55-3	4-Bromophenyl-phenylether	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
120-12-7	Anthracene	10		U
84-74-2	Di-n-butylphthalate	10		U
206-44-0	Fluoranthene	10		U
129-00-0	Pyrene	10		U
85-68-7	Butylbenzylphthalate	10		U
91-94-1	3,3'-Dichlorobenzidine	10		U
56-55-3	Benzo[a]anthracene	10		U
218-01-9	Chrysene	10		U
117-81-7	bis(2-Ethylhexyl)phthalate	10		U
117-84-0	Di-n-octylphthalate	10		U
205-99-2	Benzo[b]fluoranthene	10		U
207-08-9	Benzo[k]fluoranthene	10		U
50-32-8	Benzo[a]pyrene	10		U
193-39-5	Indeno[1,2,3-cd]pyrene	10		U
53-70-3	Dibenz[a,h]anthracene	10		U
191-24-2	Benzo[g,h,i]perylene	10		U

842894238

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHOLD CHEMProject No. 1649

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATERLab Sample ID: O5444Sample wt/vol: 5 (g/mL) MLLab File ID: V0751.D

Level: (low/med) _____

Date Received: 11/2/92% Moisture: not dec. 100Date Analyzed: 11/3/92GC Column: DB-624ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 6(ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	3.67	89	J
2. 78-84-2	Propanal, 2-methyl-	6.09	34	J
3. 78-85-3	2-Propenal, 2-methyl-	6.57	210	J
4.	Unknown	6.99	37	J
5. 1115-11-3	2-Butenal, 2-methyl-	13.31	50	J
6.	Unknown	28.07	71	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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19.				
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25.				
26.				
27.				
28.				
29.				
30.				

RCI-001-10578

842894239

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

EFFLUENT

Lab Name: CHEMTECHContract: REICHHOLD CHEMProject No.: 1649

Site: _____

Location: _____

Group: _____

Matrix: (soil/water)

WATERLab Sample ID: 05444

Sample wt/vol:

1000

(g/mL)

MLLab File ID: 90350.D

Level: (low/med)

Date Received: 11/2/92% Moisture: 100

decanted: (Y/N)

NDate Extracted: 11/6/92

Concentrated Extract Volume:

1000

(uL)

Date Analyzed: 11/16/92

Injection Volume:

1.0

(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N)

N

pH: _____

Concentration Units:

Number TICs found: 12

(ug/L or ug/Kg)

ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.	Unknown	7.82	3000	J
2. 126-30-7	1,3-Propanediol, 2,2-dimethy	9.09	540	J
3. 112-50-5	Ethanol, 2-[2-(2-ethoxyethox	10.28	820	J
4.	Unknown	10.58	940	J
5. 144-19-4	1,3-Pentanediol, 2,2,4-trime	13.64	800	J
6.	Unknown	14.33	152	J
7.	Unknown	16.90	3600	J
8.	Unknown	17.28	7400	J
9.	Unknown	17.49	6000	J
10.	Unknown	21.32	4000	J
11. 1761-71-3	Cyclohexanamine, 4,4'-methyl	24.54	800	J
12.	Unknown	24.69	800	J
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
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25.				
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27.				
28.				
29.				
30.				

RCI-001-10579